337,744

STIC-ILL

Fr m: Robinson, Binta 1625
Sent: Tuesday, March 20, 2001 6:21 PM
T : STIC-ILL
Subject: Interlibrary Loan

Telephone Number <703-306-5437 >

Application Number or Other Order Identifier < 09593173>

Author (if known) < Abbott et. al.>

Article Title < Addition reactions of heterocyclic compounds. Part 81. Products from dimethyl acetylenedicarboxylate with some cycloalkyl [b] pyridines>

Journal or Book Title < J. Chem. Res., Synop.>

Pages if a Journal < 169>

Volume And Issue if a Journal < 6>

Year Of Publication < 1985>

Could I have this journal in a 1 to 2 days?
Thank you

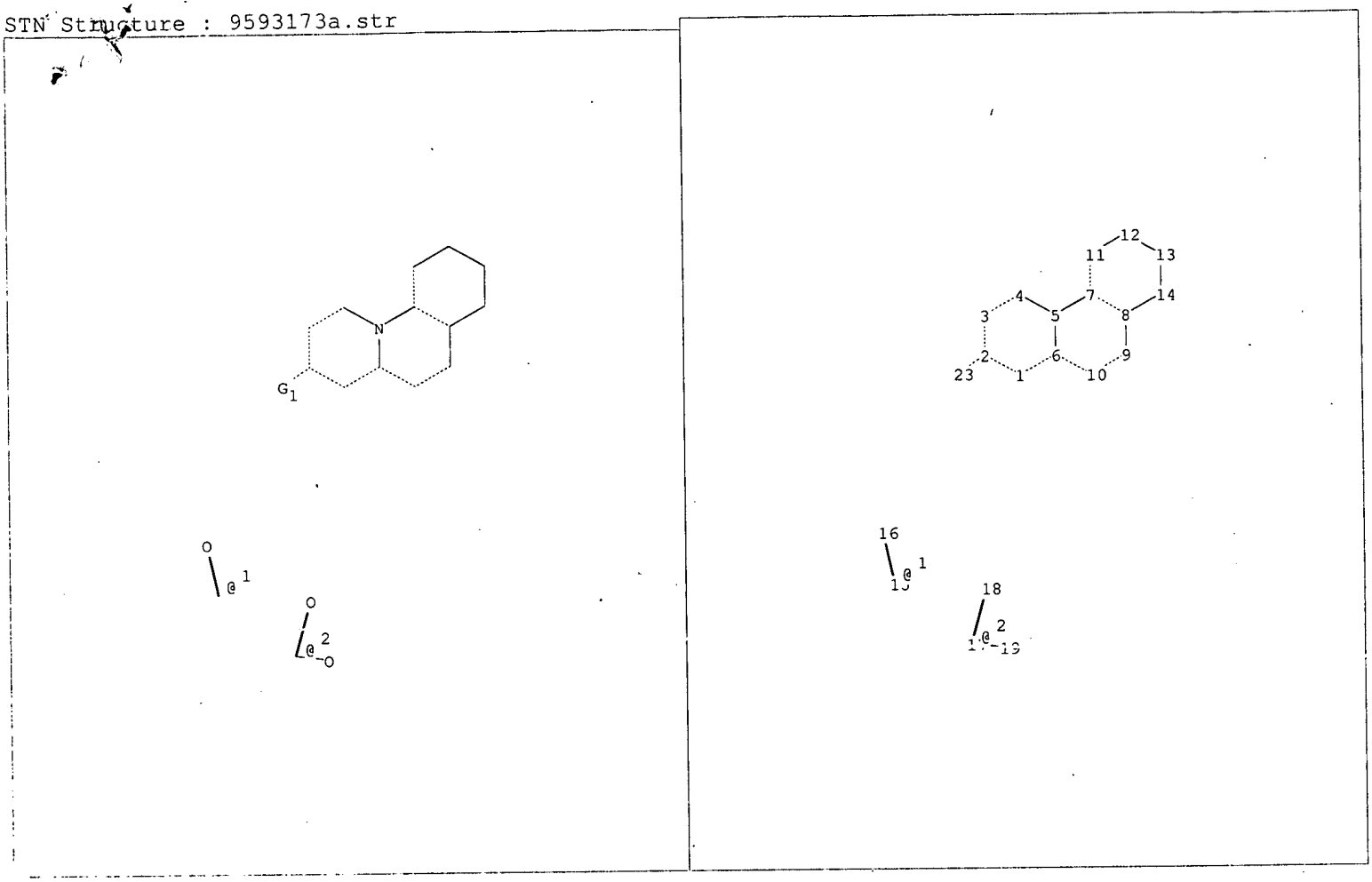
ND 3/21

agl - QD40. A1J62

agl 3/22

2 18

STN Structure : 9593173a.str



chain nodes :
15 16 17 18 19 23
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds :
2-23 15-16 17-18 17-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 7-11 8-9 8-14 9-10 11-12 12-13 13-14
exact/norm bonds :
1-2 1-6 2-3 2-23 3-4 4-5 5-6 5-7 6-10 7-8 7-11 8-9 8-14 9-10 11-12 12-13
13-14 15-16 17-18 17-19
isolated ring systems :
containing 1 :

G1:NO2,O,S,[*1],[*2]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 23:CLASS

```
=> d his

     (FILE 'HOME' ENTERED AT 16:00:16 ON 20 MAR 2001)

     FILE 'REGISTRY' ENTERED AT 16:00:21 ON 20 MAR 2001
L1                STRUCTURE UPLOADED
L2              7 S L1
L3            155 S L2 FULL

     FILE 'CA' ENTERED AT 16:01:47 ON 20 MAR 2001
L4             31 S L3
L5              7 S L4 AND GUARNA, A?/AU
L6              2 S L5 AND PD < JANUARY 1998
L7             24 S L4 NOT L5

     FILE 'CAOLD' ENTERED AT 16:05:22 ON 20 MAR 2001
L8             10 S L3

     FILE 'REGISTRY' ENTERED AT 16:05:44 ON 20 MAR 2001
                E    96279-91-3/RN
L9              1 S E3
                E  106742-14-7/RN
L10             1 S E3
                E    107543-02-2/RN
L11             1 S E3
                E   4527-67-7/RN
L12             1 S E3
                E    5100-53-8/RN
L13             1 S E3
                E    5100-62-9/RN
L14             1 S E3
                E   5100-63-0/RN
L15             1 S E3
                E 5100-64-1/RN
L16             1 S E3
                E    5100-70-9/RN
L17             1 S E3
                E     5100-71-0/RN
L18             1 S E3
                E   5100-76-5/RN
L19             1 S E3
                E   5100-77-6/RN
L20             1 S E3
                E     5569-24-4/RN
L21             1 S E3
                E   5161-92-2/RN
L22             1 S E3
                E   6082-64-0/RN
L23             1 S E3
                E  4527-67-7/RN
L24             1 S E3
                E   4604-91-5/RN
L25             1 S E3
                E    4613-02-9/RN
```

```
L26             1 S E3
                  E  95516-57-7/RN
L27             1 S E3
                  E  95771-15-6/RN
L28             1 S E3
                  E    98029-81-3/RN
L29             1 S E3
                  E   17260-83-2/RN
L30             1 S E3
                  E   26593-23-7/RN
L31             1 S E3
                  E    33922-39-3/RN
L32             1 S E3

=>

---Logging off of STN---


=>
Executing the logoff script...


=> LOG Y

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    47.11     295.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00     -14.56

STN INTERNATIONAL LOGOFF AT 16:24:32 ON 20 MAR 2001
```

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:ssspta1612BXR
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Sep 29	The Philippines Inventory of Chemicals and Chemical Substances (PICCS) has been added to CHEMLIST
NEWS 3	Oct 27	New Extraction Code PAX now available in Derwent Files
NEWS 4	Oct 27	SET ABBREVIATIONS and SET PLURALS extended in Derwent World Patents Index files
NEWS 5	Oct 27	Patent Assignee Code Dictionary now available in Derwent Patent Files
NEWS 6	Oct 27	Plasdoc Key Serials Dictionary and Echoing added to Derwent Subscriber Files WPIDS and WPIX
NEWS 7	Nov 29	Derwent announces further increase in updates for DWPI
NEWS 8	Dec 5	French Multi-Disciplinary Database PASCAL Now on STN
NEWS 9	Dec 5	Trademarks on STN - New DEMAS and EUMAS Files
NEWS 10	Dec 15	2001 STN Pricing
NEWS 11	Dec 17	Merged CEABA-VTB for chemical engineering and biotechnology
NEWS 12	Dec 17	Corrosion Abstracts on STN
NEWS 13	Dec 17	SYNTHLINE from Prous Science now available on STN
NEWS 14	Dec 17	The CA Lexicon available in the CAPLUS and CA files
NEWS 15	Jan 05	AIDSLINE is being removed from STN
NEWS 16	Feb 06	Engineering Information Encompass files have new names
NEWS 17	Feb 16	TOXLINE no longer being updated

NEWS EXPRESS	FREE UPGRADE 5.0e FOR STN EXPRESS 5.0 WITH DISCOVER! (WINDOWS) NOW AVAILABLE
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:00:16 ON 20 MAR 2001

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'REGISTRY' ENTERED AT 16:00:21 ON 20 MAR 2001

STRUCTURE FILE UPDATES: 19 MAR 2001 HIGHEST RN 328055-05-6
DICTIONARY FILE UPDATES: 19 MAR 2001 HIGHEST RN 328055-05-6

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

Please note that search-term pricing does apply when conducting SmartSELECT searches.

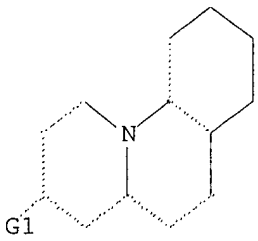
Structure search limits have been increased. See HELP SLIMIT for details.

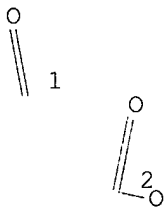
=>
Uploading 9593173a.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS
L1 STR





G1 NO2,O,S,[@1],[@2]

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 16:01:32 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 507 TO ITERATE

100.0% PROCESSED 507 ITERATIONS 7 ANSWERS
SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8790 TO 11490
PROJECTED ANSWERS: 7 TO 298

L2 7 SEA SSS SAM L1

=> s l2 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 133.25 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 16:01:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 10070 TO ITERATE

100.0% PROCESSED 10070 ITERATIONS 155 ANSWERS

SEARCH TIME: 00.00.03

L3 155 SEA SSS FUL L1

=> file ca

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	133.87	134.02

FILE 'CA' ENTERED AT 16:01:47 ON 20 MAR 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1967 - 15 Mar 2001 VOL 134 ISS 13
FILE LAST UPDATED: 15 Mar 2001 (20010315/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Now you can extend your author, patent assignee, patent information, and title searches back to 1907. The records from 1907-1966 now have this searchable data in CAOLD. You now have electronic access to all of CA: 1907 to 1966 in CAOLD and 1967 to the present in CA on STN.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

=> s l3

L4 31 L3

=> s l4 and Guarna, a?/au

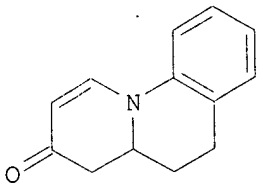
83 GUARNA, A?/AU
L5 7 L4 AND GUARNA, A?/AU

=> s l5 and pd < january 1998

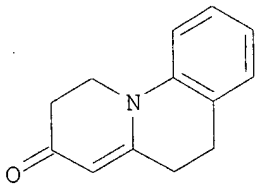
14784701 PD < JANUARY 1998
(PD<19980100)
L6 2 L5 AND PD < JANUARY 1998

=> d l6, ibib abs hitstr, 1-2

L6 ANSWER 1 OF 2 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 130:52313 CA
TITLE: Synthesis of benzo[c]quinolizin-3-ones: selective non-steroidal inhibitors of steroid 5.alpha.-reductase 1
AUTHOR(S): **Guarna, Antonio**; Occhiato, Ernesto G.; Scarpi, Dina; Tsai, Ruey; Danza, Giovanna; Comerci, Alessandra; Mancina, Rosa; Serio, Mario
CORPORATE SOURCE: Dipartimento di Chimica Organica "U. Schiff", Centro di Studio sulla Chimica e la Struttura dei Composti Eterociclici e lori Applicazioni, CNR, Univ. di Firenze, Florence, I-50121, Italy
SOURCE: Bioorg. Med. Chem. Lett. (**1998**), 8(20), 2871-2876
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

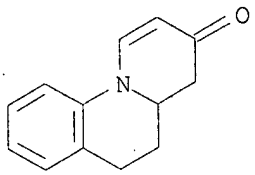


II

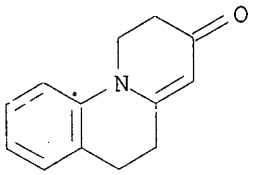
AB A short and efficient synthesis of novel benzo[c]quinolizin-3-ones I and II is described. The synthesis is based on the tandem Mannich-Michael cyclization between 2-(silyloxy)-1,3-butadienes and a N-t-Boc iminium ion.

I and II are selective inhibitors of human steroid 5.alpha.-reductase isoenzyme 1, and thus have potential application as drugs for treatment of male pattern baldness and other DHT-dependent skin disorders.

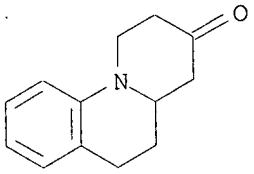
IT **194979-80-1P 194979-85-6P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(benzo[c]quinolizin-3-ones as selective inhibitors of steroid 5.alpha.-reductase 1)
RN 194979-80-1 CA
CN 3H-Benzo[c]quinolizin-3-one, 4,4a,5,6-tetrahydro- (9CI) (CA INDEX NAME)



RN 194979-85-6 CA
CN 3H-Benzo[c]quinolizin-3-one, 1,2,5,6-tetrahydro- (9CI) (CA INDEX NAME)



IT **194979-79-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(benzo[c]quinolizin-3-ones as selective inhibitors of steroid 5.alpha.-reductase 1)
RN 194979-79-8 CA
CN 3H-Benzo[c]quinolizin-3-one, 1,2,4,4a,5,6-hexahydro- (9CI) (CA INDEX NAME)



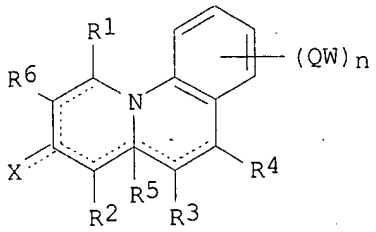
REFERENCE COUNT: 21
REFERENCE(S):
(1) Abell, A; Bioorg Med Chem Lett 1994, V4, P1365 CA
(2) Abell, A; Bioorg Med Chem Lett 1994, V4, P2327 CA
(3) Abell, A; Curr Med Chem 1995, V2, P583 CA
(4) Frye, S; Curr Pharm Des 1996, V2, P59 CA
(5) Guarna, A; Biomed Appl 1995, V674, P197 CA
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 127:220585 CA
TITLE: Benzo[c]quinolizine derivatives, their preparation and use as 5.alpha.-reductases inhibitors
INVENTOR(S): **Guarna, Antonio**; Serio, Mario
PATENT ASSIGNEE(S): Applied Research Systems ARS Holding N.V., Neth. Antilles; Guarna, Antonio; Serio, Mario
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
WO 9729107	A1	19970814	WO 1997-EP552	19970207	<--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
AU 9717672	A1	19970828	AU 1997-17672	19970207	<--
AU 711886	B2	19991021			
EP 880520	A1	19981202	EP 1997-903230	19970207	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
CN 1210536	A	19990310	CN 1997-192097	19970207	
JP 2000504680	T2	20000418	JP 1997-528158	19970207	
EP 926148	A1	19990630	EP 1997-122733	19971223	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
NO 9803444	A	19980724	NO 1998-3444	19980724	
WO 9933828	A1	19990708	WO 1998-EP8582	19981221	
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG					
AU 9924194	A1	19990719	AU 1999-24194	19981221	
BR 9813836	A	20001010	BR 1998-13836	19981221	
EP 1066284	A1	20010110	EP 1998-966711	19981221	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
ZA 9811762	A	19990623	ZA 1998-11762	19981222	
NO 2000003199	A	20000823	NO 2000-3199	20000620	
PRIORITY APPLN. INFO.:			IT 1996-FI19	19960209	
			WO 1997-EP552	19970207	
			EP 1997-122733	19971223	
			WO 1998-EP8582	19981221	

OTHER SOURCE(S): MARPAT 127:220585
GI



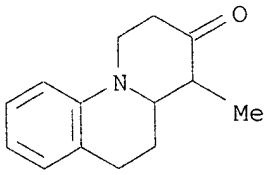
I

AB The benzo[c]quinolizine derivs. I (R1-R4, R6 = H, alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heterocycle, halo, amino azide, alkoxycarbonyl, etc.; R5 = H, alkyl, alkoxycarbonyl, cyano, aryl, heterocycle; X = O, acyl, alkoxycarbonyl, NOZ, carbamoyl; Q = bond, alkyl, alkenyl, alkynyl, amino, etc., W = H, alkyl, alkenyl, alkynyl, aryl, aryloxy, amino, halo, etc.) were prepd. as 5.alpha.-reductases inhibitors (no data). Thus, N-(tert-butoxycarbonyl)-2-ethoxy-1,2,3,4-tetrahydroquinline was cyclized with 2-(trimethylsilyloxy)-1,3-butadiene to give 1,2,4,4a,5,6-hexahydro-(11H)-benzo[c]quinolizin-3-one.

IT **5569-24-4P 194979-79-8P 194979-80-1P 194979-81-2P 194979-82-3P 194979-83-4P 194979-84-5P 194979-85-6P 194979-86-7P 194979-87-8P 194979-88-9P 194979-89-0P 194979-90-3P 194979-91-4P 194979-92-5P 194979-93-6P 194979-94-7P 194979-95-8P 194979-96-9P 194979-97-0P 194979-98-1P 194979-99-2P 194980-00-2P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzo[c]quinolizine derivs. as 5.alpha.-reductases inhibitors)

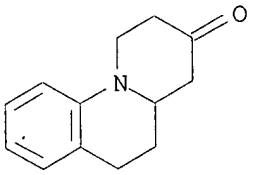
RN 5569-24-4 CA

CN 3H-Benzo[c]quinolizin-3-one, 1,2,4,4a,5,6-hexahydro-4-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

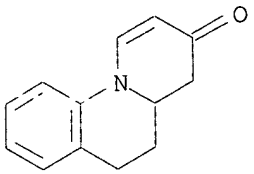


RN 194979-79-8 CA

CN 3H-Benzo[c]quinolizin-3-one, 1,2,4,4a,5,6-hexahydro- (9CI) (CA INDEX NAME)

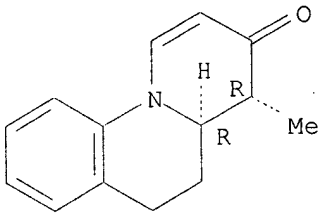


RN 194979-80-1 CA
CN 3H-Benzo[c]quinolizin-3-one, 4,4a,5,6-tetrahydro- (9CI) (CA INDEX NAME)

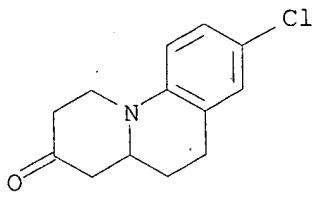


RN 194979-81-2 CA
CN 3H-Benzo[c]quinolizin-3-one, 4,4a,5,6-tetrahydro-4-methyl-, (4R,4aR)-rel- (9CI) (CA INDEX NAME)

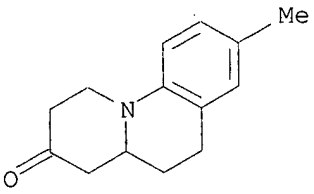
Relative stereochemistry.



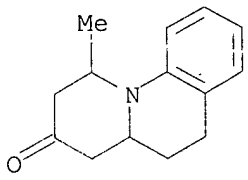
RN 194979-82-3 CA
CN 3H-Benzo[c]quinolizin-3-one, 8-chloro-1,2,4,4a,5,6-hexahydro- (9CI) (CA INDEX NAME)



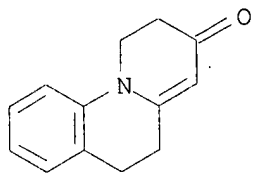
RN 194979-83-4 CA
CN 3H-Benzo[c]quinolizin-3-one, 1,2,4,4a,5,6-hexahydro-8-methyl- (9CI) (CA INDEX NAME)



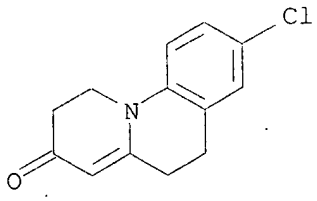
RN 194979-84-5 CA
CN 3H-Benzo[c]quinolizin-3-one, 1,2,4,4a,5,6-hexahydro-1-methyl- (9CI) (CA INDEX NAME)



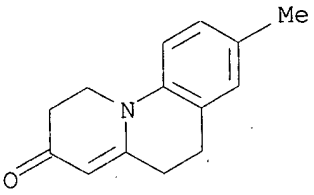
RN 194979-85-6 CA
CN 3H-Benzo[c]quinolizin-3-one, 1,2,5,6-tetrahydro- (9CI) (CA INDEX NAME)



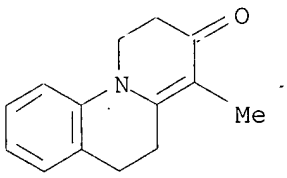
RN 194979-86-7 CA
CN 3H-Benzo[c]quinolizin-3-one, 8-chloro-1,2,5,6-tetrahydro- (9CI) (CA INDEX NAME)



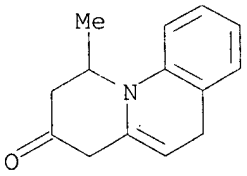
RN 194979-87-8 CA
CN 3H-Benzo[c]quinolizin-3-one, 1,2,5,6-tetrahydro-8-methyl- (9CI) (CA INDEX NAME)



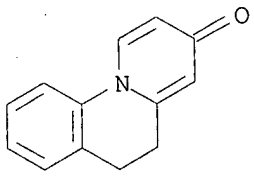
RN 194979-88-9 CA
CN 3H-Benzo[c]quinolizin-3-one, 1,2,5,6-tetrahydro-4-methyl- (9CI) (CA INDEX NAME)



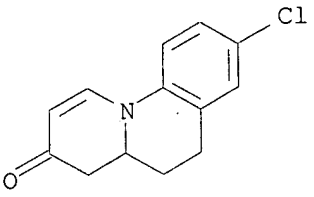
RN 194979-89-0 CA
CN 3H-Benzo[c]quinolizin-3-one, 1,2,4,6-tetrahydro-1-methyl- (9CI) (CA INDEX NAME)



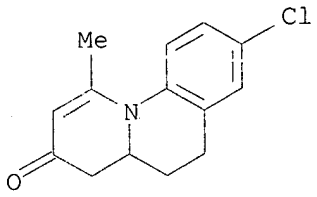
RN 194979-90-3 CA
CN 3H-Benzo[c]quinolizin-3-one, 5,6-dihydro- (9CI) (CA INDEX NAME)



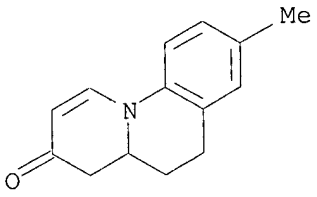
RN 194979-91-4 CA
CN 3H-Benzo[c]quinolizin-3-one, 8-chloro-4,4a,5,6-tetrahydro- (9CI) (CA INDEX NAME)



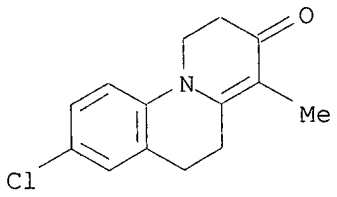
RN 194979-92-5 CA
CN 3H-Benzo[c]quinolizin-3-one, 8-chloro-4,4a,5,6-tetrahydro-1-methyl- (9CI) (CA INDEX NAME)



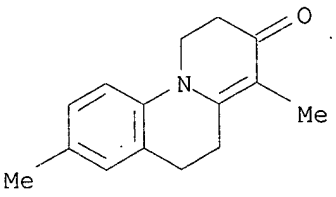
RN 194979-93-6 CA
CN 3H-Benzo[c]quinolizin-3-one, 4,4a,5,6-tetrahydro-8-methyl- (9CI) (CA INDEX NAME)



RN 194979-94-7 CA
CN 3H-Benzo[c]quinolizin-3-one, 8-chloro-1,2,5,6-tetrahydro-4-methyl- (9CI) (CA INDEX NAME)

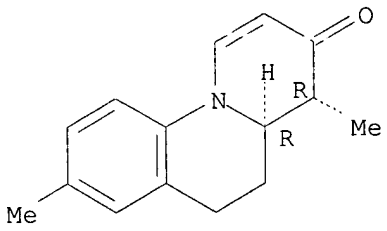


RN 194979-95-8 CA
CN 3H-Benzo[c]quinolizin-3-one, 1,2,5,6-tetrahydro-4,8-dimethyl- (9CI) (CA INDEX NAME)



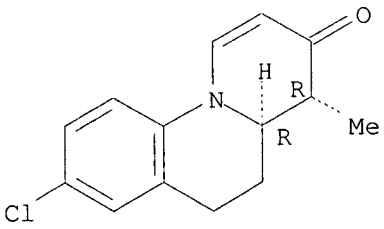
RN 194979-96-9 CA
CN 3H-Benzo[c]quinolizin-3-one, 4,4a,5,6-tetrahydro-4,8-dimethyl-, (4R,4aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



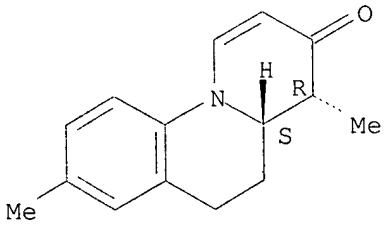
RN 194979-97-0 CA
CN 3H-Benzo[c]quinolizin-3-one, 8-chloro-4,4a,5,6-tetrahydro-4-methyl-, (4R,4aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



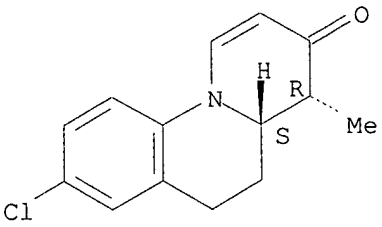
RN 194979-98-1 CA
CN 3H-Benzo[c]quinolizin-3-one, 4,4a,5,6-tetrahydro-4,8-dimethyl-, (4R,4aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



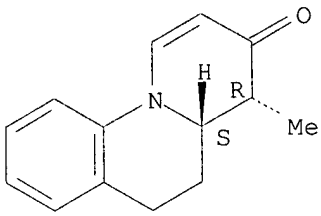
RN 194979-99-2 CA
CN 3H-Benzo[c]quinolizin-3-one, 8-chloro-4,4a,5,6-tetrahydro-4-methyl-, (4R,4aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 194980-00-2 CA
CN 3H-Benzo[c]quinolizin-3-one, 4,4a,5,6-tetrahydro-4-methyl-, (4R,4aS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



=> d his

(FILE 'HOME' ENTERED AT 16:00:16 ON 20 MAR 2001)

FILE 'REGISTRY' ENTERED AT 16:00:21 ON 20 MAR 2001
L1 STRUCTURE UPLOADED
L2 7 S L1
L3 155 S L2 FULL

FILE 'CA' ENTERED AT 16:01:47 ON 20 MAR 2001
L4 31 S L3
L5 7 S L4 AND GUARNA, A?/AU
L6 2 S L5 AND PD < JANUARY 1998

=> s l4 not l5

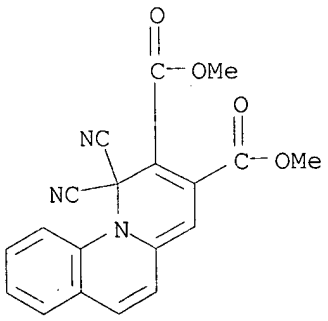
L7 24 L4 NOT L5

=> d l7, ibib abs hitstr, fhitstr, 1-24

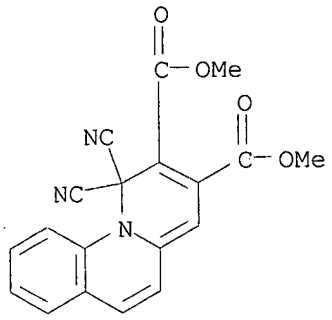
L7 ANSWER 1 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 134:178436 CA
TITLE: Photochemistry of triazolopyridinium ylides
AUTHOR(S): Abarca, Belen; Ballesteros, Rafael; Houari, Nadia
CORPORATE SOURCE: Departamento de Quimica Organica, Facultad de Farmacia, Universidad de Valencia, Burjassot (Valencia), 46100, Spain
SOURCE: ARKIVOC (2000), 1(3), 274-283
CODEN: AKVCFI
URL: http://www.arkat.org/arkat/journal/Issue3/onweb15/gj15.htm
PUBLISHER: ARKAT Foundation
DOCUMENT TYPE: Journal; (online computer file)
LANGUAGE: English

AB The photochem. reaction of triazolopyridinium ylides and their benzologs with Me propiolate or acetylenedicarboxylate in MeCN were studied. The products were similar to those obtained in thermal reactions, although the yields were different. In no case were the 1,3-dipolar cycloadducts obtained.

IT **206189-66-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(photochem. reaction of triazolopyridinium ylides with propiolate and acetylenedicarboxylate)
RN 206189-66-4 CA
CN 1H-Benzo[c]quinolizine-2,3-dicarboxylic acid, 1,1-dicyano-, dimethyl ester
(9CI) (CA INDEX NAME)

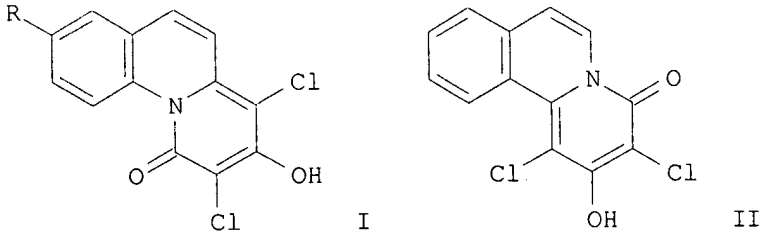


IT **206189-66-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(photochem. reaction of triazolopyridinium ylides with propiolate and acetylenedicarboxylate)
RN 206189-66-4 CA
CN 1H-Benzo[c]quinolizine-2,3-dicarboxylic acid, 1,1-dicyano-, dimethyl ester
(9CI) (CA INDEX NAME)



REFERENCE COUNT: 7
REFERENCE(S):
(2) Abarca, B; Tetrahedron 1991, V47, P5277 CA
(3) Abarca, B; Tetrahedron 1996, V52, P10519 CA
(4) Abarca, B; Tetrahedron 1997, V53, P12765 CA
(5) Abarca, B; Tetrahedron 1998, V54, P3913 CA
(6) Abarca, B; Tetrahedron Lett 1991, V32, P4977 CA
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 134:4847 CA
TITLE: A novel annulation to quinolines and isoquinolines under Friedel-Crafts conditions: a one-step synthesis of functionalized pyridoquinolines and pyridoisoquinolines
AUTHOR(S): Mahato, Shashi B.; Garai, Subhadra; Weber, Manuela; Luger, Peter
CORPORATE SOURCE: Indian Institute of Chemical Biology, Calcutta, Jadavpur, 700032, India
SOURCE: Perkin 1 (2000), (17), 2898-2900
CODEN: PERKF9
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

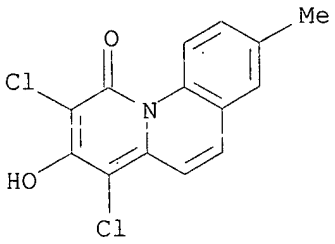


I II

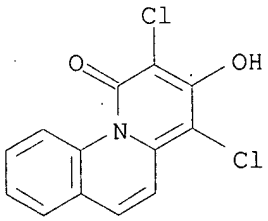
AB A novel one-step synthesis of pyridoquinolines I (R = H, Me, MeO) and pyridoisoquinolines II from quinoline, 6-methyl-, and 6-methoxyquinolines and isoquinoline under Friedel-Crafts conditions is reported. The complete structures of the pyridoquinoline and pyridoisoquinoline analogs obtained by using 6-methylquinoline and isoquinoline as substrates were

established by single-crystal X-ray anal.

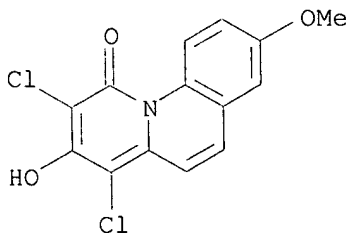
IT **308123-47-9P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(crystal structure and prepn. of pyridoquinolines and -isoquinolines by
cyclization of quinolines and isoquinolines with acylating agents)
RN 308123-47-9 CA
CN 1H-Benzo[c]quinolizin-1-one, 2,4-dichloro-3-hydroxy-8-methyl- (9CI) (CA INDEX NAME)



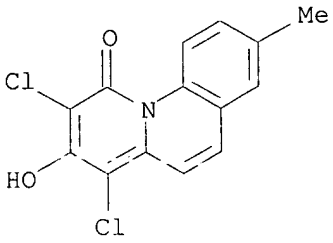
IT **144785-48-8P 308123-48-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(crystal structure and prepn. of pyridoquinolines and -isoquinolines by
cyclization of quinolines and isoquinolines with acylating agents)
RN 144785-48-8 CA
CN 1H-Benzo[c]quinolizin-1-one, 2,4-dichloro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 308123-48-0 CA
CN 1H-Benzo[c]quinolizin-1-one, 2,4-dichloro-3-hydroxy-8-methoxy- (9CI) (CA INDEX NAME)



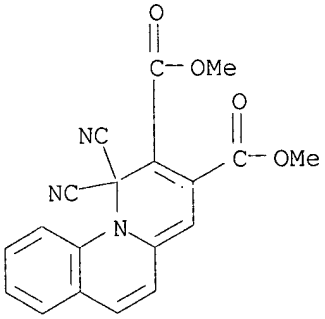
IT **308123-47-9P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(crystal structure and prepn. of pyridoquinolines and -isoquinolines by
cyclization of quinolines and isoquinolines with acylating agents)
RN 308123-47-9 CA
CN 1H-Benzo[c]quinolizin-1-one, 2,4-dichloro-3-hydroxy-8-methyl- (9CI) (CA INDEX NAME)



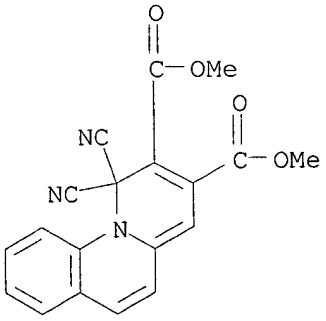
REFERENCE COUNT: 22
REFERENCE(S):
(6) Chakrabarti, G; J Antimicrob Chemother 1999, V43, P359 CA
(8) El-Khawaga, A; J Org Chem 1984, V49, P3832 CA
(9) Elliott, M; Synlett 1999, P1379 CA
(11) Mahato, S; J Chem Res 1992, P294 CA
(12) Mahato, S; J Org Chem 1984, V49, P718 CA
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 128:294736 CA
TITLE: The reaction between triazolobenzopyridinium and triazolothiazolium ylides with dimethyl acetylenedicarboxylate
AUTHOR(S): Abarca, Belen; Ballesteros, Rafael; Houari, Nadia; Samadi, Aldelouahid
CORPORATE SOURCE: Departamento de Quimica Organica, Facultad de Farmacia, Universidad de Valencia, Valencia, 46100, Spain
SOURCE: Tetrahedron (1998), 54(15), 3913-3918
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The reaction of some [1,2,3]triazolo[1,5-a]quinolinium, [1,2,3]triazolo[5,1-a]isoquinolinium, and [1,2,3]triazolo[5,1-b]thiazolium ylides with di-Me acetylenedicarboxylate is described. Compds. such as di-Me pyrrolo[1,2-a]quinoline-1,2-dicarboxylate, di-Me pyrrolo[2,1-a]isoquinoline-2,3-dicarboxylate, 1,1-dicyano-2,3-dimethoxycarbonyl-1H-pyrido[1,2-a]quinoline, 4,4-dicyano-2,3-dimethoxycarbonyl-4H-pyrido[2,1-a]isoquinoline, and 7-methyl-5,6-dimethoxycarbonylpyrrolo[2,1-a]thiazole, are formed.
IT **206189-66-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)

(reaction of triazolobenzopyridinium and triazolothiazolium ylides with
di-Me acetylenedicarboxylate)
RN 206189-66-4 CA
CN 1H-Benzo[c]quinolizine-2,3-dicarboxylic acid, 1,1-dicyano-, dimethyl ester
(9CI) (CA INDEX NAME)

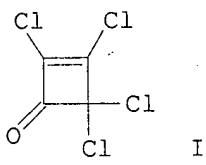


IT **206189-66-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(reaction of triazolobenzopyridinium and triazolothiazolium ylides with
di-Me acetylenedicarboxylate)
RN 206189-66-4 CA
CN 1H-Benzo[c]quinolizine-2,3-dicarboxylic acid, 1,1-dicyano-, dimethyl ester
(9CI) (CA INDEX NAME)

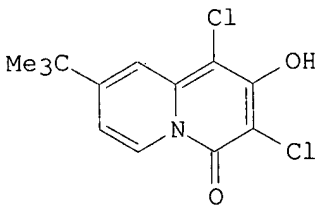


L7 ANSWER 4 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 118:6845 CA
TITLE: Oxocarbons and related compounds. Part 18. The reaction of perchlorocyclobutenone with pyridines: a novel synthesis of 4H-4-quinolizinones
AUTHOR(S): Schmidt, Arthur H.; Duemmler, Mario
CORPORATE SOURCE: Abt. Org. Chem. Biochem., Fachlochsch. Fresenius, Wiesbaden, D-6200, Germany
SOURCE: Synthesis (1992), (10), 969-72

CODEN: SYNTBF; ISSN: 0039-7881
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 118:6845
GI



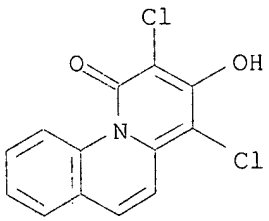
I



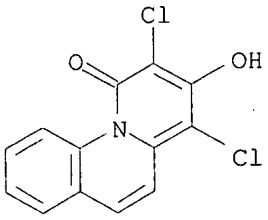
II

AB Heating of tetrachlorocyclobutenone (I) with pyridines followed by treatment with water affords 1,3-dichloro-2-hydroxy-4H-4-quinolizinones, e.g. II, and 1,3-dichloro-2-hydroxy-4-oxo-4H-quinolizinecarboxylates. The reaction did not proceed via intermediate (trichloropxocyclobutenyl)pyridinium salts to give betaines. The reaction pathway has been secured by trapping 1,2,3-trichloro-8-(1,1-dimethylethyl)-4H-4-quinoliznone and by its successive conversion to II on heating with water.

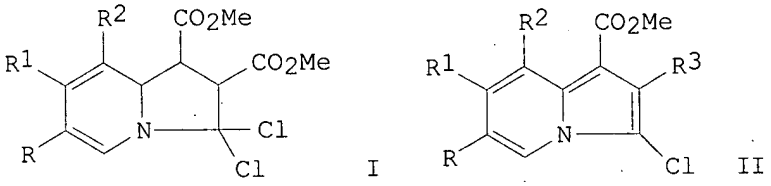
IT **144785-48-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, by ring opening and reaction of perchlorocyclobutenone with pyridine)
RN 144785-48-8 CA
CN 1H-Benzo[c]quinolizin-1-one, 2,4-dichloro-3-hydroxy- (9CI) (CA INDEX NAME)



IT **144785-48-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, by ring opening and reaction of perchlorocyclobutenone with pyridine)
RN 144785-48-8 CA
CN 1H-Benzo[c]quinolizin-1-one, 2,4-dichloro-3-hydroxy- (9CI) (CA INDEX NAME)

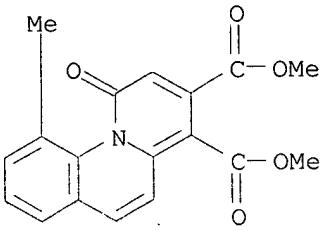


L7 ANSWER 5 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 113:131933 CA
TITLE: 1,3-Dipolar cycloadditions of ylides formed from pyridine and dichlorocarbene
AUTHOR(S): Khlebnikov, A. F.; Kostik, E. I.; Kostikov, R. R.; Bespalov, V. Ya.
CORPORATE SOURCE: Leningr. Gos. Univ., Leningrad, 199004, USSR
SOURCE: Khim. Geterotsikl. Soedin. (1990), (3), 355-62
CODEN: KGSSAQ; ISSN: 0453-8234
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI

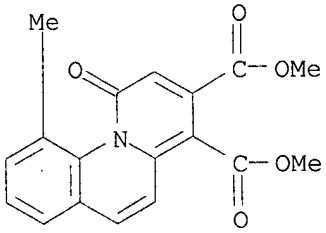


AB Pyridinium dichloromethylides reacted with di-Me maleate to give tetrahydroindolizinedicarboxylates (I; R, R2 = H, Me, Br; R1 = H, Me, Cl, PhCO), which were easily dehydrochlorinated and dehydrogenated to give indolizinedicarboxylates (II, R3 = CO2Me). 4-Picolinium dichloromethylide reacted with Me 3-phenylpropiolate to give II (R = R2 = H, R1 = Me, R3 = Ph) regioselectively. The exptl. results were compared with HMO predictions.

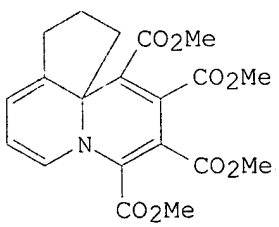
IT **129247-00-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 129247-00-3 CA
CN 1H-Benzo[c]quinolizine-3,4-dicarboxylic acid, 10-methyl-1-oxo-, dimethyl ester (9CI) (CA INDEX NAME)



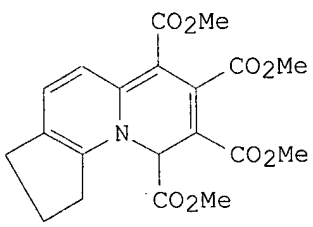
IT **129247-00-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 129247-00-3 CA
CN 1H-Benzo[c]quinolizine-3,4-dicarboxylic acid, 10-methyl-1-oxo-, dimethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 6 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 103:195974 CA
TITLE: Addition reactions of heterocyclic compounds. Part 81. Products from dimethyl acetylenedicarboxylate with some cycloalkyl[b]pyridines
AUTHOR(S): Abbott, Patrick J.; Acheson, R. Morrin; Choi, Michael C. K.
CORPORATE SOURCE: Dep. Biochem., Univ. Oxford, Oxford, OX1 3QU, UK
SOURCE: J. Chem. Res., Synop. (1985), (6), 169
CODEN: JRPSDC; ISSN: 0308-2342
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 103:195974
GI



II



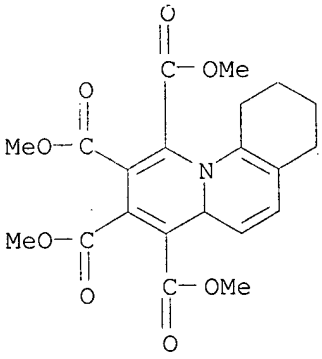
III

AB Treatment of cycloalkyl[b]pyridines with MeO2CC.tplbond.CCO2Me (I) gave tetra-Me 9aH-quinolizine-1,2,3,4-tetracarboxylates along with other quinolizines and oxoquinolizines. E.g., treatment of 6,7-dihydro-5H-cyclopenta[b]pyridine with I in DMF for 12 days gave tetracarboxylates II and III.

IT **99087-66-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 99087-66-8 CA

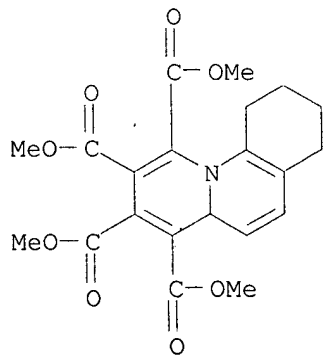
CN 7H-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a,8,9,10-tetrahydro-, tetramethyl ester (9CI) (CA INDEX NAME)



IT **99087-66-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 99087-66-8 CA

CN 7H-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a,8,9,10-tetrahydro-, tetramethyl ester (9CI) (CA INDEX NAME)



102

L7 ANSWER 7 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 101:210941 CA

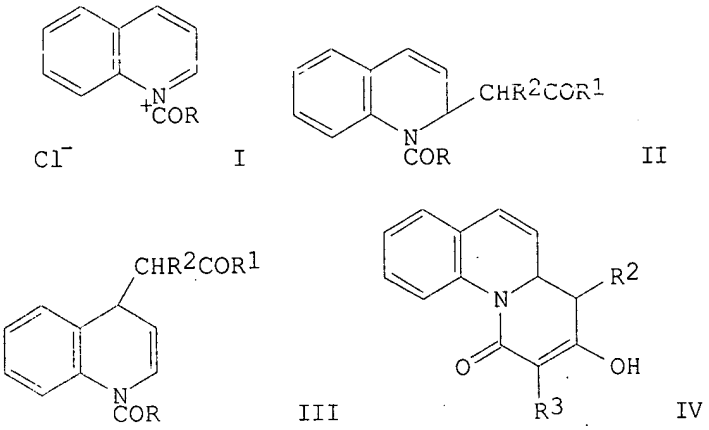
TITLE: Addition of trimethylsilyl enol ethers to quinolinium salts: a facile synthesis of methyl 2-(2-oxoalkyl)-1,2-dihydroquinoline-1-carboxylates and their cyclization

AUTHOR(S): Akiba, Kinya; Kobayashi, Toshifumi; Yamamoto, Yohsuke
CORPORATE SOURCE: Fac. Sci., Hiroshima Univ., Hiroshima, 730, Japan

SOURCE: Heterocycles (1984), 22(7), 1519-22
CODEN: HTCYAM; ISSN: 0385-5414

DOCUMENT TYPE: Journal
LANGUAGE: English

GI



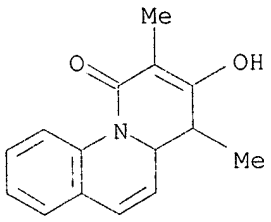
I II III IV

AB Addn. of R2CH:CR1OSiMe3 [R1, R2 = Me, H; Ph, H; Et, Me; OMe, Me; or R1R2 = (CH2)4] to the quinolinium salts I (R = Me, OMe, OEt, OCH2CCl3) gave 85-99% mixts. of quinoline derivs. II and III. II (R - R2 = OMe, Et, Me; OMe, Me, H) were treated with NaH to give the benzoquinolizine derivs. IV (R2 = Me, Me; H, H; resp.).

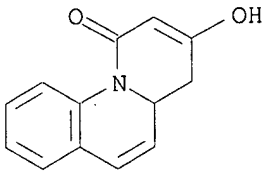
IT **92637-11-1P 92637-12-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 92637-11-1 CA

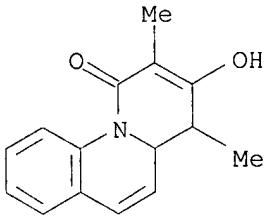
CN 1H-Benzo[c]quinolizin-1-one, 4,4a-dihydro-3-hydroxy-2,4-dimethyl- (9CI) (CA INDEX NAME)



RN 92637-12-2 CA
CN 1H-Benzo[c]quinolizin-1-one, 4,4a-dihydro-3-hydroxy- (9CI) (CA INDEX NAME)



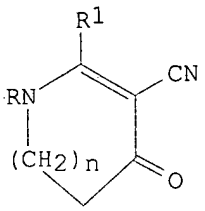
IT **92637-11-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 92637-11-1 CA
CN 1H-Benzo[c]quinolizin-1-one, 4,4a-dihydro-3-hydroxy-2,4-dimethyl- (9CI) (CA INDEX NAME)



L7 ANSWER 8 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 99:212524 CA
TITLE: 1,2-Polymethyleneketocyanoaza heterocycles
INVENTOR(S): Volovenko, Yu. M.; Babichev, F. S.; Pustovit, Yu. M.
PATENT ASSIGNEE(S): Kiev State University, USSR
SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1983, (25), 88.
CODEN: URXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 1027166	A1	19830707	SU 1981-3339358	19810911

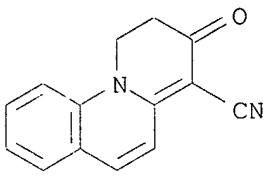
GI



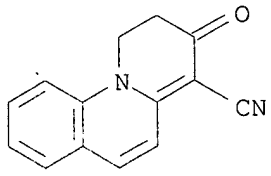
I

AB Compds. I (RR1 = o-C6H4CH:CH, o-C6H4C6H4-o, o-C6H4NMe; n = 1, 2) are prepd. by treating RN:CR1CH(CN)CO(CH2)nCH2R2 (R2 = Cl, Br) with org. bases
under reflux.

IT **87905-54-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 87905-54-2 CA
CN 1H-Benzo[c]quinolizine-4-carbonitrile, 2,3-dihydro-3-oxo- (9CI) (CA INDEX
NAME)

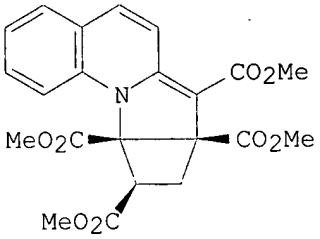


IT **87905-54-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 87905-54-2 CA
CN 1H-Benzo[c]quinolizine-4-carbonitrile, 2,3-dihydro-3-oxo- (9CI) (CA INDEX
NAME)



L7 ANSWER 9 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 92:110806 CA
TITLE: Addition reactions of heterocyclic compounds. Part 69. Further studies of reactions between 2-alkylquinolines and dimethyl acetylenedicarboxylate
AUTHOR(S): Acheson, R. Morrin; Procter, Garry

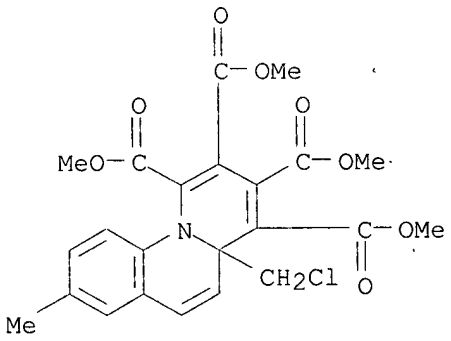
CORPORATE SOURCE: Dep. Biochem., Univ. Oxford, Oxford, OX1 3QU, Engl.
SOURCE: J. Chem. Soc., Perkin Trans. 1 (1979), (9), 2171-9
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



II

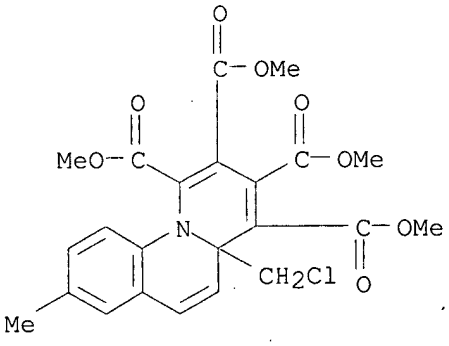
AB The reactions of MeO2CC.tplbond.CCO2Me (I) with Et quinoline-2-acetate, other quinolines with activated 2-Me groups, and 2-acetoxyquinoline were studied spectroscopically. Mechanistic schemes are proposed for the formation of cyclobutapyrroloquinoline II by the cycloaddn. reaction of 2-methylquinoline with I. Reactions of II, based on its previously reported azepine structure (A. et al., 1968), are reinterpreted using 13C NMR data.

IT **72813-97-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 72813-97-9 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-(chloromethyl)-8-methyl-, tetramethyl ester (9CI) (CA INDEX NAME)

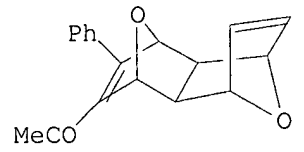


IT **72813-97-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 72813-97-9 CA

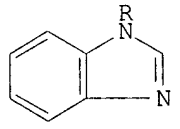
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-(chloromethyl)-8-
methyl-, tetramethyl ester (9CI) (CA INDEX NAME)



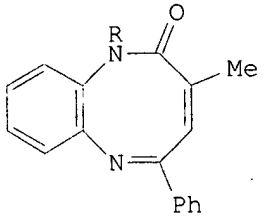
L7 ANSWER 10 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 91:91477 CA
TITLE: Addition reactions of heterocyclic compounds. Part 67. Products from 1-phenylbut-1-yn-3-one with various heterocycles, and from dimethyl acetylenedicarboxylate with some 2-substituted pyridines
AUTHOR(S): Acheson, R. Morrin; Wallis, John D.; Woollard, John
CORPORATE SOURCE: Dep. Biochem., Univ. Oxford, Oxford, Engl.
SOURCE: J. Chem. Soc., Perkin Trans. 1 (1979), (3), 584-90
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



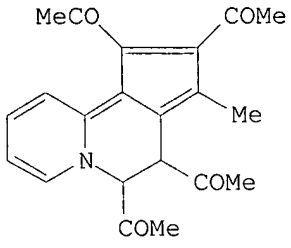
II



III



IV

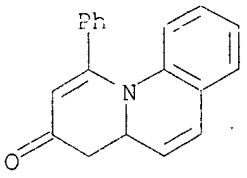


V

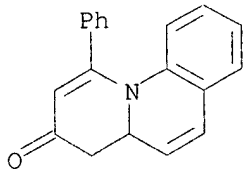
AB Treating PhC.tplbond.CCOMe (I) with 1-alkylpyrroles effected dimerization,

whereas with furan, the adduct II was formed. With 3-methylpyridine and quinoline, I gave dihydroquinolizinones. Treating I with benzimidazole (III; R = H) gave mainly Z-III (R = CPh:CHCOMe) with some of the corresponding E-isomer whereas with III (R = Me, Et, CH2Ph), ring expansion to benzodiazocinones IV took place. Treating 1-(2-pyridyl)butan-2-one with MeO2CC.tplbond.CCO2Me gave quinolizine V, whereas other pyridines gave quinolizines, azepines, and indolizines.

IT **71127-12-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 71127-12-3 CA
CN 3H-Benzo[c]quinolizin-3-one, 4,4a-dihydro-1-phenyl- (9CI) (CA INDEX NAME)



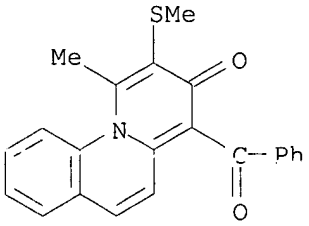
IT **71127-12-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 71127-12-3 CA
CN 3H-Benzo[c]quinolizin-3-one, 4,4a-dihydro-1-phenyl- (9CI) (CA INDEX NAME)



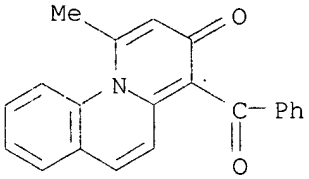
L7 ANSWER 11 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 84:59142 CA
TITLE: Stable sulfur ylides. IV. Reaction of dimethylsulfonium acetylmethoxycarbonylmethylide and dimethylsulfonium diacetylmethylide with quinoline 1-oxide
AUTHOR(S): Watanabe, Mitsuaki; Kodera, Makoto; Kinoshita, Toshio; Furukawa, Sunao
CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, Japan
SOURCE: Chem. Pharm. Bull. (1975), 23(11), 2598-604
CODEN: CPBTAL
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Me2S+C-(COMe)CO2Me reacted with quinoline 1-oxide (I) in the presence of

BzCl to give pyrrolo[1,2-a]quinolines II(R = H, 2-quinolyl)and III. Similarly, Me2S+C-(COMe)2 and 3H-pyrido[1,2-a]quinoline IV.

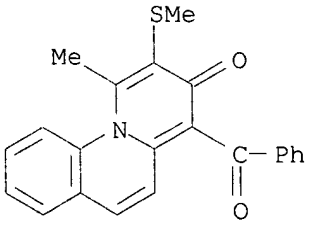
IT **58346-57-9P 58346-59-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 58346-57-9 CA
CN 3H-Benzo[c]quinolizin-3-one, 4-benzoyl-1-methyl-2-(methylthio)- (9CI) (CA
INDEX NAME)



RN 58346-59-1 CA
CN 3H-Benzo[c]quinolizin-3-one, 4-benzoyl-1-methyl- (9CI) (CA INDEX NAME)

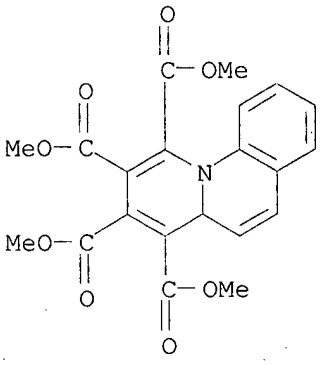


IT **58346-57-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 58346-57-9 CA
CN 3H-Benzo[c]quinolizin-3-one, 4-benzoyl-1-methyl-2-(methylthio)- (9CI) (CA
INDEX NAME)

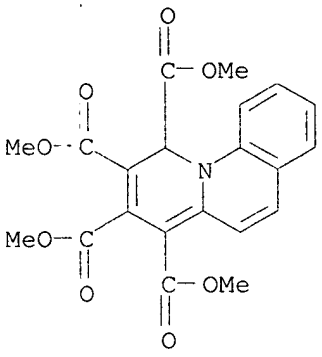


L7 ANSWER 12 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 82:111924 CA

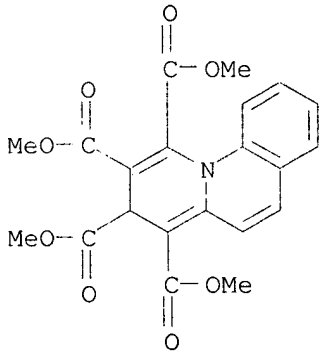
TITLE: Photoisomerization of benzo[c]quinolizines. Isolation of the first 2H-quinolizines derivative
AUTHOR(S): Plunkett, A. Owen
CORPORATE SOURCE: Dep. Chem., Portsmouth Polytech., Portsmouth, Engl.
SOURCE: Tetrahedron Lett. (1974), (48), 4181-2
CODEN: TELEAY
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Irradn. of tetra-Me 4aH-benzo[c]quinolizine-1,2,3,4-tetracarboxylate (I) in C6H6 gave the 3H-benzo[c]quinolizine II, the 1H tautomer of I, a benzo[c]indolizine, and a red dimer.
IT **26593-23-7**
RL: RCT (Reactant)
(isomerization of, photochem.)
RN 26593-23-7 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, tetramethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



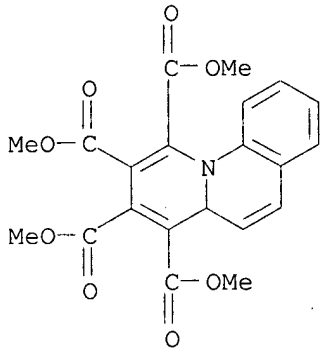
IT **33922-39-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and photochem. isomerization of)
RN 33922-39-3 CA
CN 1H-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, tetramethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



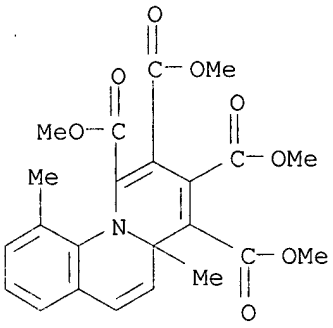
IT **54930-54-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 54930-54-0 CA
CN 3H-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, tetramethyl ester (9CI) (CA INDEX NAME)



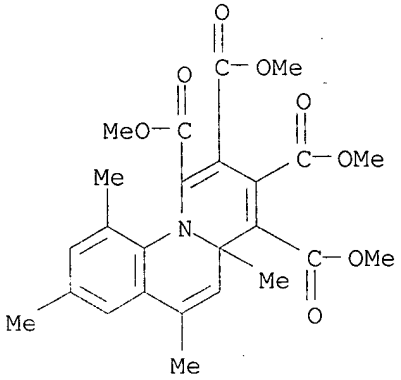
IT **26593-23-7**
RL: RCT (Reactant)
(isomerization of, photochem.)
RN 26593-23-7 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, tetramethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



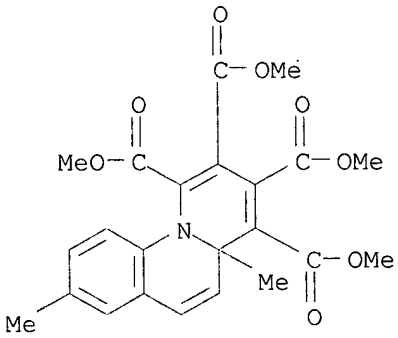
L7 ANSWER 13 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 79:91951 CA
TITLE: Addition reactions of heterocyclic compounds. LII. Adducts from substituted 2-methylquinolines and dimethyl acetylenedicarboxylate
AUTHOR(S): Acheson, R. Morrin; Nisbet, Donald F.
CORPORATE SOURCE: Dep. Biochem., Univ. Oxf., Oxford, Engl.
SOURCE: J. Chem. Soc., Perkin Trans. 1 (1973), (13), 1338-46
CODEN: JCPRB4
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Mono-, di-. and trimethylquinolines with MeO2CC.tplbond.CCO2Me gave dark red adducts of two types, thought to be geometric isomers. E.g. 2-methylquinoline with MeO2CC.tplbond.CCO2Me gave a mixt. contg. hexa-Me 6,7,7a,8-tetrahydrobenzo[f]cyclopenta[a]quinolizine-6,7,7a,8,9,-10-hexacarboxylate (I) and an isomer. Other products from these reactions included benzo[c]quinolizine-, azepino [1,2-a]quinoline-, and 2-propenylquinolinecarboxylates. 2,8-Dimethyl- and 2,4,6,8-tetramethylquinoline also gave 2-[tris(methoxycarbonyl)phenyl]quinolines.
IT **49616-77-5P 49616-91-3P 49616-95-7P**
49616-96-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 49616-77-5 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a,10-dimethyl-, tetramethyl ester (9CI) (CA INDEX NAME)



RN 49616-91-3 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a,6,8,10-tetramethyl-, tetramethyl ester (9CI) (CA INDEX NAME)

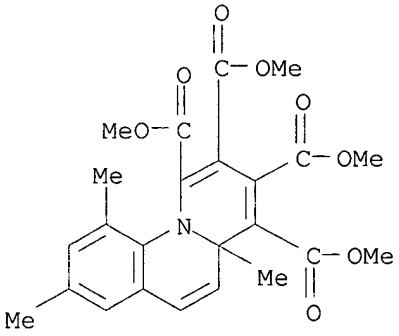


RN 49616-95-7 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a,8-dimethyl-, tetramethyl ester (9CI) (CA INDEX NAME)

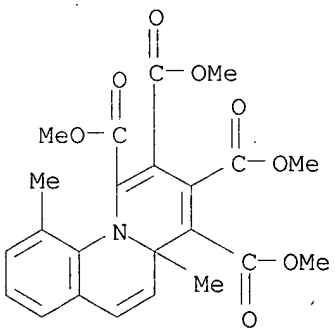


RN 49616-96-8 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a,8,10-trimethyl-,

tetramethyl ester (9CI) (CA INDEX NAME)



IT **49616-77-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 49616-77-5 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a,10-dimethyl-, tetramethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 14 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 76:114251 CA
TITLE: High-modulus-elasticity polycarbonate compositions
INVENTOR(S): Jackson, Winston J., Jr.; Caldwell, John R.
PATENT ASSIGNEE(S): Eastman Kodak Co.
SOURCE: U.S., 10 pp. Continuation-in-part of U.S. 3,386,935 (CA 69;28318h).
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

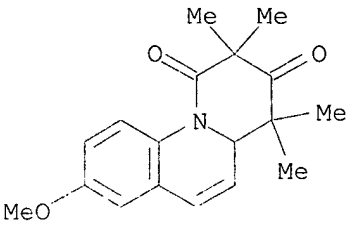
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3625877	A	19711207	US 1968-696124	19680108

AB Addns. of 2-50% stiffening agent, such as polystyrene thioglycol [34568-07-5] with mol. wt. 444-3400, abietyl alc. (I) [666-84-2] hydrogenated I, and mono and diesters obtained from the condensation of unsatd. and hydrogenated I with mono-and dicarboxylic acids contg. .leq.19 C atoms, to bisphenol polycarbonates and polyesters increased the modulus, tensile strength, and hardness of the polymers while decreasing elongation. Thus, a bisphenol A-phosgene copolymer [25971-63-5] was mixed with 20% Me abietate [127-25-3] and the compn. was injection molded into articles with modulus 4.7 .tim. 105 psi, break strength 12,700 psi and elongation at break 4%. Articles molded from a polymer compn. contg. 20% di-Bu phthalate had modulus 3.0 .tim. 105 psi, break strength 7000 psi, and elongation at break 14%.

IT **16977-99-4**
RL: USES (Uses)
(stiffening agents, for polyesters)

RN 16977-99-4 CA

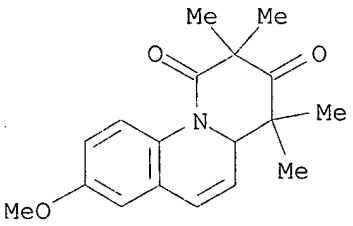
CN 1H-Benzo[c]quinolizine-1,3(2H)-dione, 4,4a-dihydro-8-methoxy-2,2,4,4-tetramethyl- (8CI, 9CI) (CA INDEX NAME)



IT **16977-99-4**
RL: USES (Uses)
(stiffening agents, for polyesters)

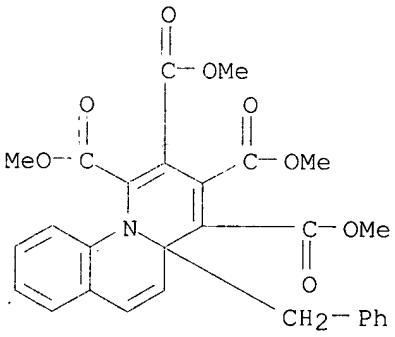
RN 16977-99-4 CA

CN 1H-Benzo[c]quinolizine-1,3(2H)-dione, 4,4a-dihydro-8-methoxy-2,2,4,4-tetramethyl- (8CI, 9CI) (CA INDEX NAME)

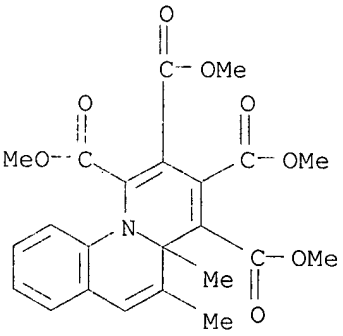


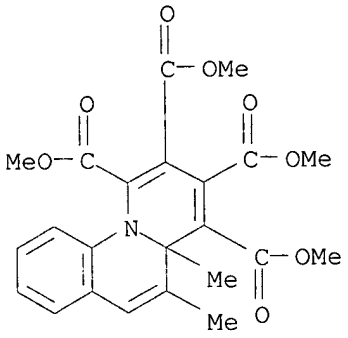
L7 ANSWER 15 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 75:140662 CA
TITLE: Addition reactions of heterocyclic compounds. XLV. New azepines from substituted 2-methylquinolines and

dialkyl acetylenedicarboxylates
AUTHOR(S): Acheson, R. M.; Nisbet, D. F.
CORPORATE SOURCE: Dep. Biochem., Univ. Oxford, Oxford, Engl.
SOURCE: J. Chem. Soc. C (1971), (19), 3291-6
CODEN: JSOOAX
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB 3- and 4-Substituted 2-methylquinolines (e.g. 2,4-dimethylquinoline) reacted with MeO2CC.tplbond.CCO2Me to give tetra-Me 10,11-dihydroazepino-[1,2-a]quinoline-7,8,9,10-tetracarboxylates (e.g. I) and tetra-Me 4a-methyl-4aH-benzo[c]quinolizine-1,2,3,4-tetracarboxylates (e.g. II). 2-Benzylquinoline reacted similarly, but 2-ethyl-and 2,3-dimethylquinoline gave mixts. of the azepinoquinoline-7,8,9,10- and -7,8,9,11-tetracarboxylates.
IT **33898-14-5P 33898-29-2P 33898-31-6P 33898-32-7P 33898-36-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 33898-14-5 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-benzyl-, tetramethyl ester (8CI) (CA INDEX NAME)

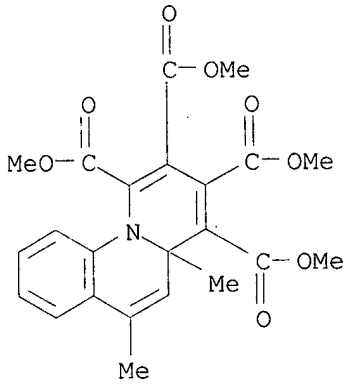


RN 33898-29-2 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a,5-dimethyl-, tetramethyl ester (8CI) (CA INDEX NAME)

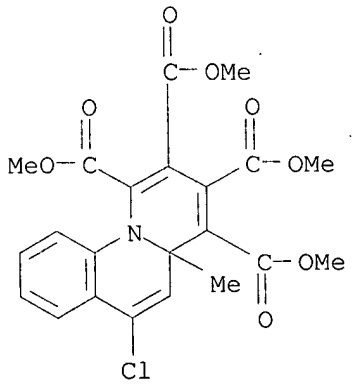




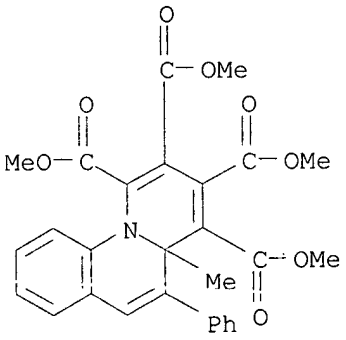
RN 33898-31-6 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a,6-dimethyl-, tetramethyl ester (8CI) (CA INDEX NAME)



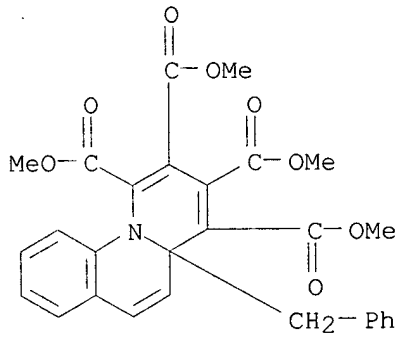
RN 33898-32-7 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 6-chloro-4a-methyl-, tetramethyl ester (8CI) (CA INDEX NAME)



RN 33898-36-1 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-methyl-5-phenyl-, tetramethyl ester (8CI) (CA INDEX NAME)



IT **33898-14-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 33898-14-5 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-benzyl-, tetramethyl ester (8CI) (CA INDEX NAME)

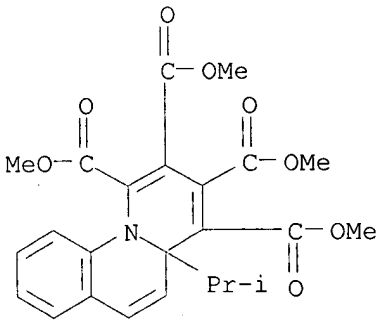


L7 ANSWER 16 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 75:140657 CA
TITLE: Addition reactions of heterocyclic compounds. XLIV. Synthesis and photoisomerism of some quinolizine esters
AUTHOR(S): Acheson, R. M.; Stubbs, J. K.
CORPORATE SOURCE: Dep. Biochem., Univ. Oxford, Oxford, Engl.
SOURCE: J. Chem. Soc. C (1971), (19), 3285-91
CODEN: JSOOAX
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB D labeling showed that the thermal rearrangement of tetra-Me

4aH-benzo[c]quinolizine-1,2,3,4-tetracarboxylate into the 1H-isomer is an intramol. process whereas the photochem. conversion involves D exchange with MeOH as solvent. MeO2CC.tplbond.CCO2Me reacted with 2-isopropyl- and 2-styrylquinoline, 2,3-dihydro-1H-cyclopenta[b]quinoline, and 1,2,3,4-tetrahydroacridine to give tetra-Me 4a-isopropyl- and 4a-styryl-4aH-benzo[c]quinolizine-1,2,3,4-tetracarboxylates, tetra-Me 6,7-dihydro-5H-benzo[c]cyclopenta[j]quinolizine-1,2,3,4-tetracarboxylate (I), and tetra-Me 5,6,7,8-tetrahydrodibenzo[cj]quinolizine-1,2,3,4-tetracarboxylate (II), resp. Irradn. of these quinolizines and other quinolizines with bridgehead H atoms or alkyl groups caused migration of the bridgehead group to C-1 in sterically favorable cases, sometimes with the formation of pyrroloazepines.

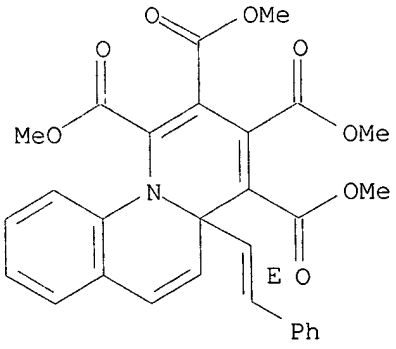
IT **33922-40-6P 33996-25-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and photochem. rearrangement of)

RN 33922-40-6 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-isopropyl-, tetramethyl ester (8CI) (CA INDEX NAME)



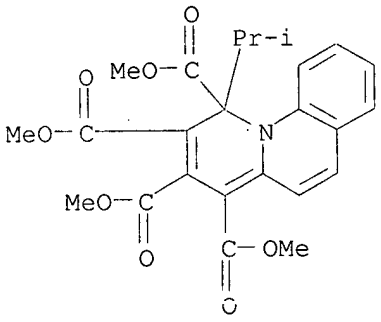
RN 33996-25-7 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-styryl-, tetramethyl ester, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.

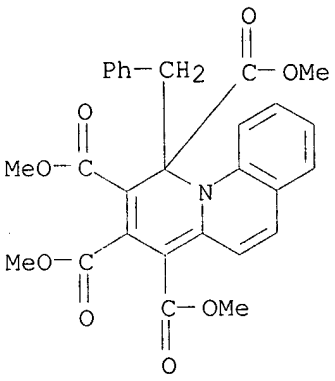


IT **33922-37-1P 33922-38-2P 33922-39-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)

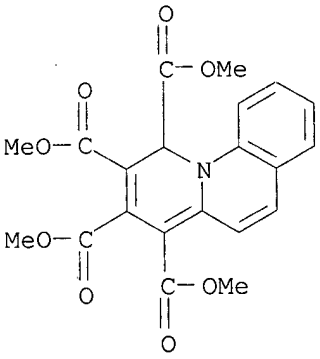
(prepn. of)
RN 33922-37-1 CA
CN 1H-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 1-isopropyl-, tetramethyl ester (8CI) (CA INDEX NAME)



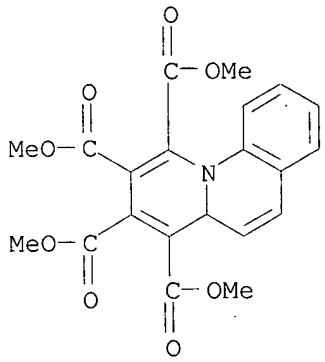
RN 33922-38-2 CA
CN 1H-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 1-benzyl-, tetramethyl ester (8CI) (CA INDEX NAME)



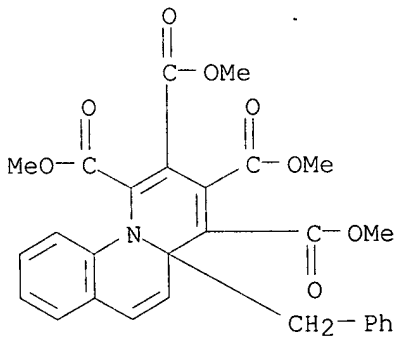
RN 33922-39-3 CA
CN 1H-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, tetramethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



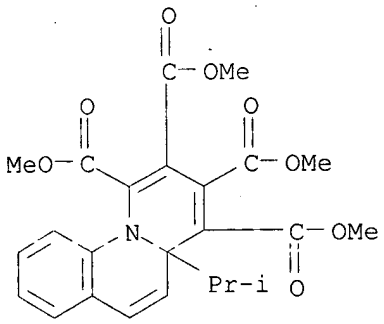
IT **26593-23-7 33898-14-5**
RL: RCT (Reactant)
(rearrangement of, photochem.)
RN 26593-23-7 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, tetramethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



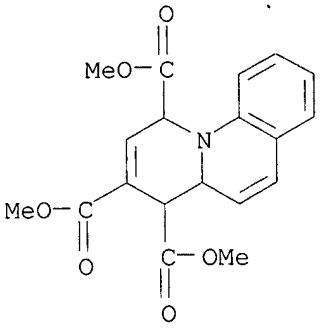
RN 33898-14-5 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-benzyl-, tetramethyl ester (8CI) (CA INDEX NAME)



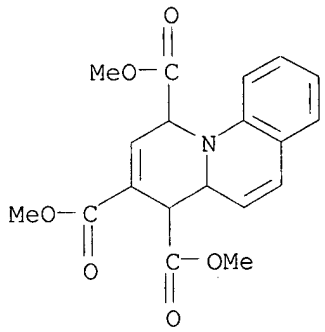
IT **33922-40-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and photochem. rearrangement of)
RN 33922-40-6 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-isopropyl-, tetramethyl ester (8CI) (CA INDEX NAME)



L7 ANSWER 17 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 75:129616 CA
TITLE: Addition reactions of heterocyclic compounds. XLVI. Reactions of acetylenic esters with pyridines in the presence of proton donors, and with alkyl 3-(2-pyridyl)-trans-acrylates
AUTHOR(S): Acheson, R. M.; Woollard, J. McK.
CORPORATE SOURCE: Dep. Biochem., Univ. Oxford, Oxford, Engl.
SOURCE: J. Chem. Soc. C (1971), (19), 3296-305
CODEN: JSOOAX
DOCUMENT TYPE: Journal
LANGUAGE: English
AB 3,5-Dimethylpyridine and HC.tplbond.CCO2Me gave Me 1,2-dihydro-1-[trans-2-(methoxycarbonyl)vinyl]-3,5-dimethyl-2-pyridinepropiolate. Pyridine and its 3-Me and 3,5-di-Me derivs. reacted with HC.tplbond.CCO2Me-MeOH to give Me 1,2-dihydro-2-methoxy-1-pyridineacrylates, and with HC.tplbond.CCO2-Me-H2O to give Me 1-pyridineacrylates contg. a (methoxycarbonylvinyloxy)(methoxycarbonyl)vinyl side chain. Reaction of 3,5-dimethylpyridine with HC.tplbond.CCO2Me-PhOH gave a 1:19 mixt. of Me cis and trans-phenoxyacrylates. Et 3-(2-pyridyl)-trans-acrylate with acetylenic mono- and diesters gave 4H-quinolizines via a spiro intermediate, with apparent migration of an ester group.
IT **33802-96-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 33802-96-9 CA
CN 1H-Benzo[c]quinolizine-1,3,4-tricarboxylic acid, 4,4a-dihydro-, trimethyl ester (8CI) (CA INDEX NAME)

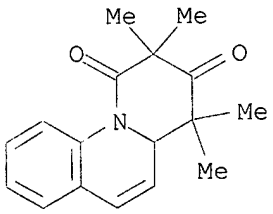


IT **33802-96-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 33802-96-9 CA
CN 1H-Benzo[c]quinolizine-1,3,4-tricarboxylic acid, 4,4a-dihydro-, trimethyl ester (8CI) (CA INDEX NAME)

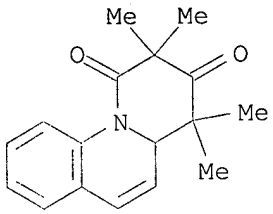


L7 ANSWER 18 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 75:98516 CA
TITLE: Ketenes. XIV. Adducts of dimethylketene with C:N compounds
AUTHOR(S): Martin, James Cuthbert; Brannock, Kent C.; Burpitt, Robert D.; Gott, P. Glenn; Hoyle, V. A., Jr.
CORPORATE SOURCE: Tennessee Eastman Co. Div., Eastman Kodak Co., Kingsport, Tenn., USA
SOURCE: J. Org. Chem. (1971), 36(16), 2211-15
CODEN: JOCEAH
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The structures of the 2:1 adducts of dimethylketene with azomethines and N-heterocycles were incorrectly assigned in the early literature. These materials are oxazinone derivs. rather than piperidinediones. For some C.N compds., bulky substituents on the N of the azomethine and use of solvents of low polarity favor .beta.-lactam formation at the expense of oxazinone.
IT **6082-64-0P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 6082-64-0 CA
CN 1H-Benzo[c]quinolizine-1,3(2H)-dione, 4,4a-dihydro-2,2,4,4-tetramethyl-(7CI, 8CI) (CA INDEX NAME)

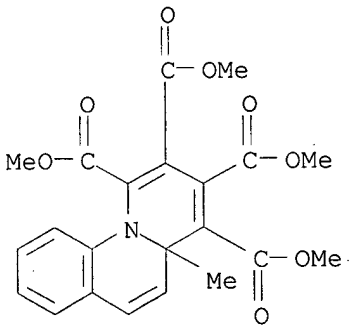


IT 6082-64-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 6082-64-0 CA
CN 1H-Benzo[c]quinolizine-1,3(2H)-dione, 4,4a-dihydro-2,2,4,4-tetramethyl-(7CI, 8CI) (CA INDEX NAME)

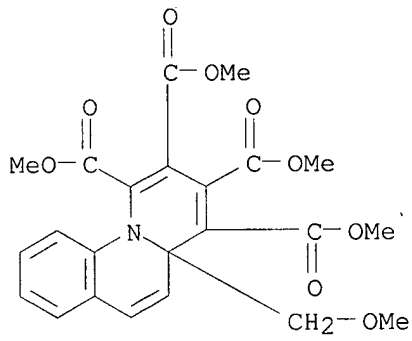


L7 ANSWER 19 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 72:3340 CA
TITLE: Addition reactions of heterocyclic compounds. XLI. Photolysis of some quinolizine esters
AUTHOR(S): Acheson, Richard M.; Stubbs, J. K.
CORPORATE SOURCE: Dep. Biochem., Oxford, Engl.
SOURCE: J. Chem. Soc. C (1969), (17), 2316-19
CODEN: JSOOAX
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The irradn. of some tetramethyl 9aH-quinolizine-1,2,3,4-tetracarboxylates gave low yields of pyrrolo[1,2-a]azepines (e.g. I); similar 4aH-benzo[c]quinolizines gave corresponding 1H-isomers and other compds. The NMR and mass spectra and mode of formation of the products are discussed.
IT **17260-83-2 17260-99-0 26593-23-7**
RL: RCT (Reactant)
(photolysis of)
RN 17260-83-2 CA

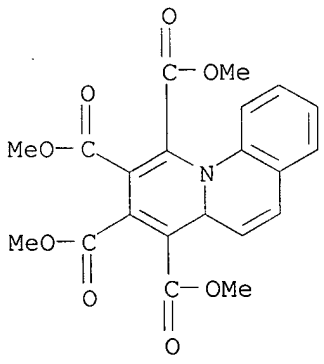
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-methyl-, tetramethyl ester (7CI, 8CI) (CA INDEX NAME)

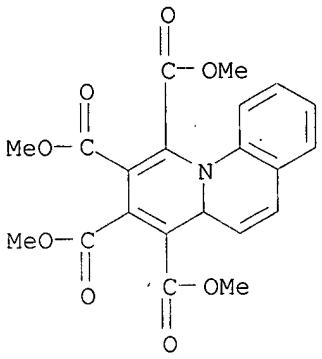


RN 17260-99-0 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-(methoxymethyl)-, tetramethyl ester (8CI) (CA INDEX NAME)

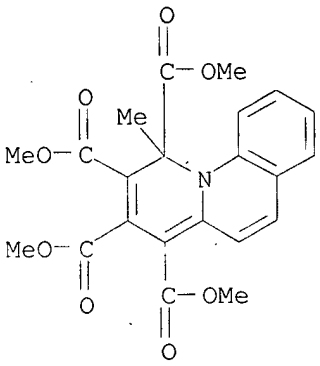


RN 26593-23-7 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, tetramethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

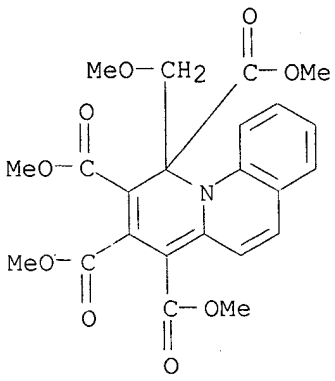


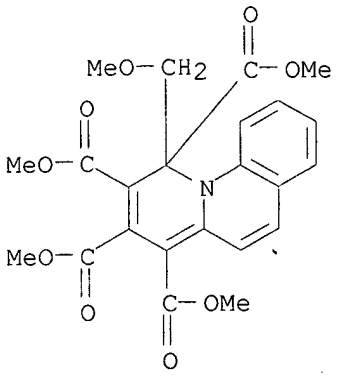


IT **24287-75-0P 24287-77-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 24287-75-0 CA
CN 1H-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 1-methyl-, tetramethyl ester (8CI) (CA INDEX NAME)

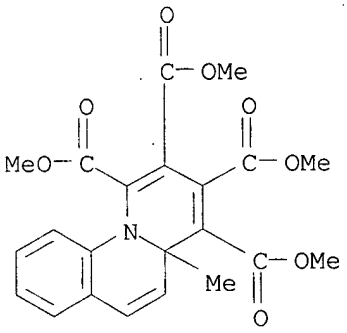


RN 24287-77-2 CA
CN 1H-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 1-(methoxymethyl)-, tetramethyl ester (8CI) (CA INDEX NAME)





IT **17260-83-2**
RL: RCT (Reactant)
(photolysis of)
RN 17260-83-2 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-methyl-, tetramethyl ester (7CI, 8CI) (CA INDEX NAME)



L7 ANSWER 20 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 69:28318 CA
TITLE: High modulus polyester and polycarbonate compositions
INVENTOR(S): Jackson, Winston J., Jr.; Caldwell, John R.
PATENT ASSIGNEE(S): Eastman Kodak Co.
SOURCE: U.S., 9 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3386935	A	19680604	US 1966-561370	19660629

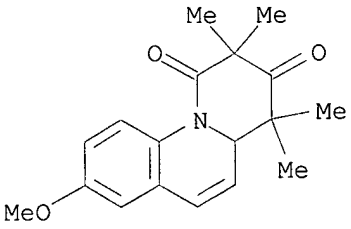
GI For diagram(s), see printed CA Issue.
AB Antiplasticizers increase the modulus, tensile strength, m.p., heat-distortion temp., and hardness of polycarbonate and polyester compns.

making them useful for the prepn. of films, fibers, and shaped articles. Thus, to a polycarbonate with inherent viscosity 1.01 prepd. from bisphenol A and COCl2 was added 20 wt. % polystyrylene glycol (I) (mol. wt. 500). The resulting compn. had modulus 4.6 .times. 105 psi., break strength 13,500 psi. and 4% elongation at break, compared with the same polycarbonate with no additive or with conventionally used dibutyl phthalate, resp., modulus 3.0-3.3 .times. 105, 3.0 .times. 105 psi., break strength 9000-9500, 7000 psi.; and 20-90%, 14% elongation at break. Similar tests were performed on other polycarbonates and additives. Polyesters were also studied.

IT **16977-99-4**
RL: USES (Uses)
(as antiplasticizer, for polyesters)

RN 16977-99-4 CA

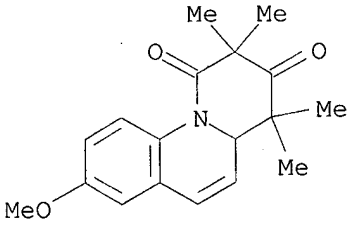
CN 1H-Benzo[c]quinolizine-1,3(2H)-dione, 4,4a-dihydro-8-methoxy-2,2,4,4-tetramethyl- (8CI, 9CI) (CA INDEX NAME)



IT **16977-99-4**
RL: USES (Uses)
(as antiplasticizer, for polyesters)

RN 16977-99-4 CA

CN 1H-Benzo[c]quinolizine-1,3(2H)-dione, 4,4a-dihydro-8-methoxy-2,2,4,4-tetramethyl- (8CI, 9CI) (CA INDEX NAME)



L7 ANSWER 21 OF 24 CA COPYRIGHT 2001 ACS

ACCESSION NUMBER: 68:68849 CA

TITLE: Addition reactions of heterocyclic compounds. XXX. Acetylenedicarboxylic esters with benzopyridines possessing activated methyl groups

AUTHOR(S): Acheson, Richard M.; Gagan, J. M. F.; Harrison, Derek R.

CORPORATE SOURCE: Dep. Biochem., Oxford, Engl.

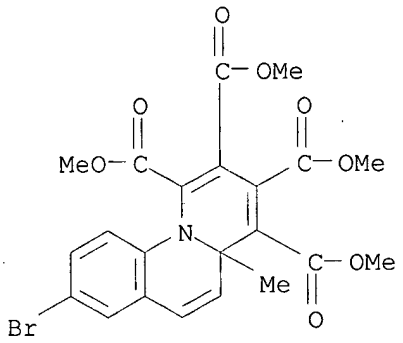
SOURCE: J. Chem. Soc. C (1968), (4), 362-78
CODEN: JSOOAX
DOCUMENT TYPE: Journal
LANGUAGE: English

GI For diagram(s), see printed CA Issue.

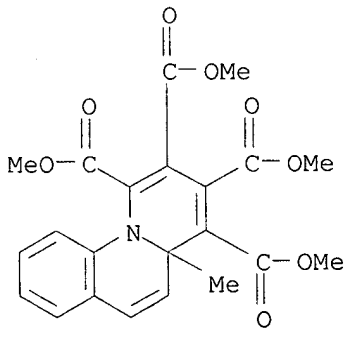
AB Dimethyl and diethyl acetylenedicarboxylate, with 2-methylquinoline and some derivs., 1-methylisoquinoline, and 6-methylphenanthridine, give dihydroazepines with the migration of an ester group; benzoquinolizines, such as I, and other products are also formed. The N.M.R. spectra of the ethoxycarbonyldihydroazepines and some derivs. were fully analyzed. Hydrogenation, protonation, bromination, hydrolysis, and oxidn. of the azepines were investigated, and a scheme for their formation is proposed. The N.M.R. spectra for some benzoquinolizines are tabulated. 36 references.

IT **17247-10-8P 17260-83-2P 17260-99-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 17247-10-8 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 8-bromo-4a-methyl-, tetramethyl ester (8CI) (CA INDEX NAME)

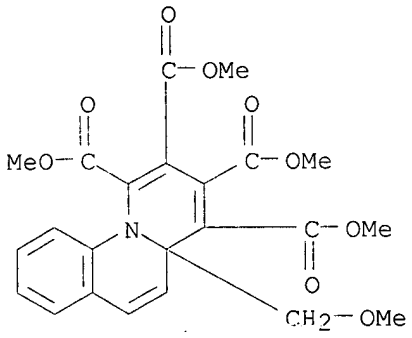


RN 17260-83-2 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-methyl-, tetramethyl ester (7CI, 8CI) (CA INDEX NAME)

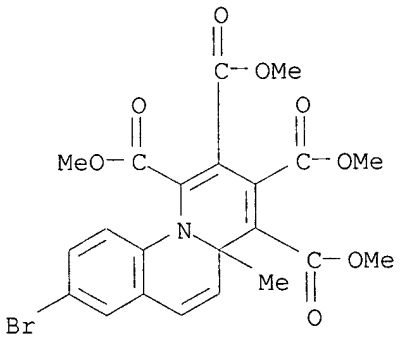


RN 17260-99-0 CA

CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-(methoxymethyl)-, tetramethyl ester (8CI) (CA INDEX NAME)



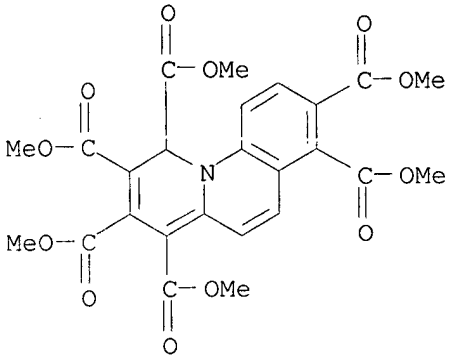
IT **17247-10-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 17247-10-8 CA
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 8-bromo-4a-methyl-, tetramethyl ester (8CI) (CA INDEX NAME)



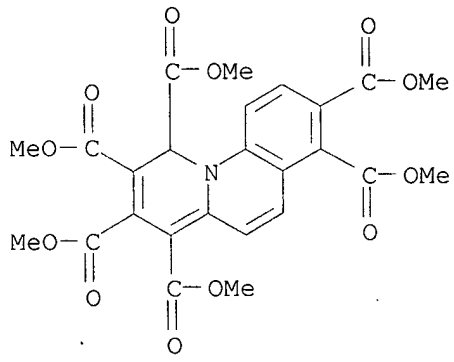
L7 ANSWER 22 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 68:68845 CA
TITLE: Addition reactions of heterocyclic compounds. XXXIII.
New adducts from some pyridines and dimethyl acetylenedicarboxylate
AUTHOR(S): Acheson, Richard M.; Foxton, Michael W.; Hands, Anthony R.
CORPORATE SOURCE: Dep. Biochem., Oxford, Engl.
SOURCE: J. Chem. Soc. C (1968), (4), 387-9
CODEN: JSOOAX
DOCUMENT TYPE: Journal
LANGUAGE: English
AB 1,2- and 1,3-Adducts were obtained from both 2-phenyl- and

2-vinylpyridines with dimethyl acetylenedicarboxylate, and their structures deduced largely from N.M.R. spectra. The adducts from 2-phenylpyridine possess one very high-field ester resonance due to shielding by the phenyl ring.

IT **17880-55-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 17880-55-6 CA
CN 1H-Benzo[c]quinolizine-1,2,3,4,7,8-hexacarboxylic acid, hexamethyl ester (8CI) (CA INDEX NAME)

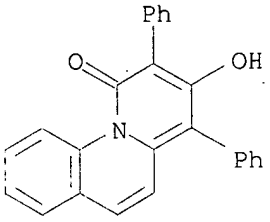


IT **17880-55-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 17880-55-6 CA
CN 1H-Benzo[c]quinolizine-1,2,3,4,7,8-hexacarboxylic acid, hexamethyl ester (8CI) (CA INDEX NAME)

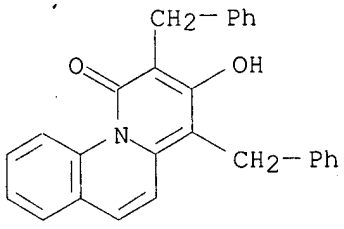


L7 ANSWER 23 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 68:39445 CA
TITLE: Syntheses of heterocycles. XCIX. Quinolizines and indolizines. 4. Synthesis of hydroxybenzoquinolizinones

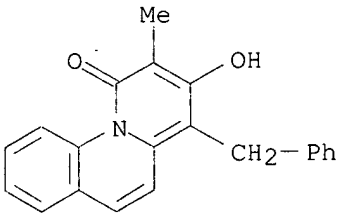
AUTHOR(S): Kappe, Thomas
CORPORATE SOURCE: Univ. Graz, Graz, Aust.
SOURCE: Monatsh. Chem. (1967), 98(6), 2148-56
CODEN: MOCHAP
DOCUMENT TYPE: Journal
LANGUAGE: German
GI For diagram(s), see printed CA Issue.
AB 2-Alkylquinolines (I) react with monosubstituted 2,4,6-trichlorophenyl malonates CHR(CO2C6H2Cl3)2 (II) at 250.degree. to give derivs. of hydroxybenzo[c] quinolizinone. The reaction of quinaldine itself with II leads to pyronoquinolizinones (III). The reaction of II with 1-methylisoquinoline yields 2-hydroxy-4H-benzo[a]quinolizin-4-ones, and with 6-alkylphenanthridines dibenzo[a,c]quinolizinones are obtained. Carbon suboxide (C3O2) is added readily to ethyl 2-quinolylacetate yielding 4-ethoxycarbonyl-3-hydroxy-1H-benzo[c]quinolizin-1-one.
IT **16956-10-8P 16956-11-9P 16956-12-0P 16956-13-1P 16956-14-2P 16956-15-3P 16956-16-4P 16956-17-5P 16959-54-9P 16959-55-0P 17037-01-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 16956-10-8 CA
CN 1H-Benzo[c]quinolizin-1-one, 3-hydroxy-2,4-diphenyl- (8CI) (CA INDEX NAME)



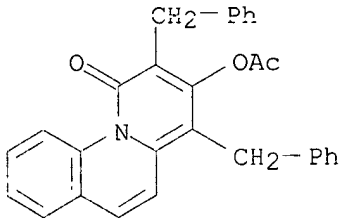
RN 16956-11-9 CA
CN 1H-Benzo[c]quinolizin-1-one, 2,4-dibenzyl-3-hydroxy- (8CI) (CA INDEX NAME)



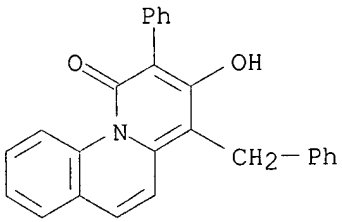
RN 16956-12-0 CA
CN 1H-Benzo[c]quinolizin-1-one, 4-benzyl-3-hydroxy-2-methyl- (8CI) (CA INDEX
NAME)



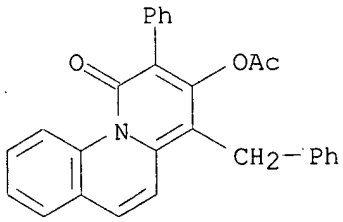
RN 16956-13-1 CA
CN 1H-Benzo[c]quinolizin-1-one, 2,4-dibenzyl-3-hydroxy-, acetate (ester) (8CI) (CA INDEX NAME)

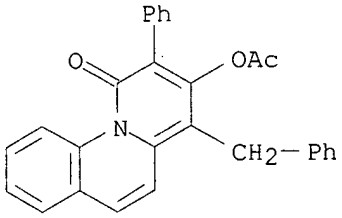


RN 16956-14-2 CA
CN 1H-Benzo[c]quinolizin-1-one, 4-benzyl-3-hydroxy-2-phenyl- (8CI) (CA INDEX NAME)

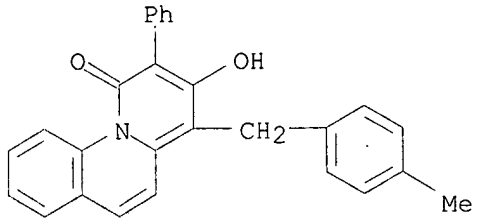


RN 16956-15-3 CA
CN 1H-Benzo[c]quinolizin-1-one, 4-benzyl-3-hydroxy-2-phenyl-, acetate (ester) (8CI) (CA INDEX NAME)

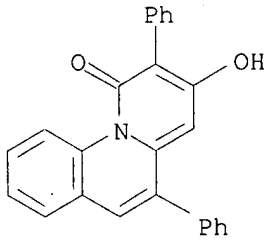




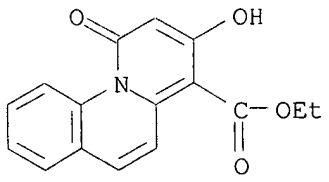
RN 16956-16-4 CA
CN 1H-Benzo[c]quinolizin-1-one, 3-hydroxy-4-(p-methylbenzyl)-2-phenyl- (8CI) (CA INDEX NAME)



RN 16956-17-5 CA
CN 1H-Benzo[c]quinolizin-1-one, 3-hydroxy-2,5-diphenyl- (8CI) (CA INDEX NAME)

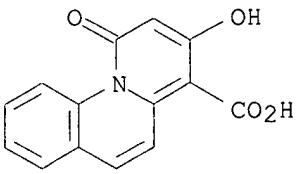


RN 16959-54-9 CA
CN 1H-Benzo[c]quinolizine-4-carboxylic acid, 3-hydroxy-1-oxo-, ethyl ester (8CI) (CA INDEX NAME)

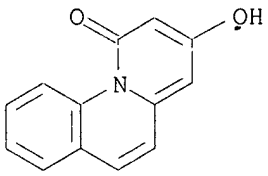


RN 16959-55-0 CA
CN 1H-Benzo[c]quinolizine-4-carboxylic acid, 3-hydroxy-1-oxo- (8CI) (CA

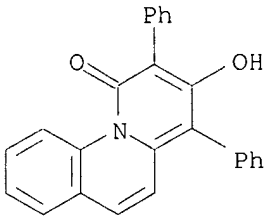
INDEX NAME)



RN 17037-01-3 CA
CN 1H-Benzo[c]quinolizin-1-one, 3-hydroxy- (8CI) (CA INDEX NAME)



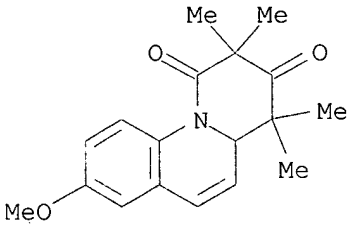
IT **16956-10-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 16956-10-8 CA
CN 1H-Benzo[c]quinolizin-1-one, 3-hydroxy-2,4-diphenyl- (8CI) (CA INDEX NAME)



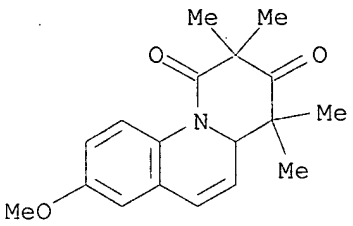
L7 ANSWER 24 OF 24 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 67:64959 CA
TITLE: Antiplasticization. II. Characteristics of antiplasticizers
AUTHOR(S): Jackson, Winston Jerome, Jr.; Caldwell, John R.
CORPORATE SOURCE: Tennessee Eastman Co., Kingsport, Tenn., USA
SOURCE: J. Appl. Polym. Sci. (1967), 11(2), 211-26
CODEN: JAPNAB
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The characteristics of materials which act as antiplasticizers for bisphenol polycarbonates are discussed. Antiplasticizers increase the modulus and tensile strength of polycarbonate films and lower the elongation, while plasticizers decrease the modulus and tensile strength,

and, in sufficient quantities, increase the elongation. Films of polycarbonates contg. additives were cast from CH2Cl2 onto glass plates [antiplasticizer, modulus .times.10-5 (psi.), yield strength (psi.), break strength (psi.), elongation at break (%), Elmendorf trear strength (g./mil) given]: none, 3.0-3.3, 8500-9000, 9000-9500, 20-90, 15; Aroclor 1242 (chlorinated biphenyl), 3.9, -, 9000, 9, -; Aroclor 1254, 4.5, -, 14,200, 4, 24; HO(CHPhCH2O)nH (mol. wt. 500), 4.6, -, 13,500, 4, 22; 1-(2,4-dinitrophenyl)-2-phenylethene, 3.7, -, 9800, 4, 20; 2,2'-dinitrobiphenyl, 4.4, -, 12,000, 4, 22; 3,4-dichlorophenyl benzenesulfonate, 3.8, 10,000, 9300, 11, 21; 2,5-dimethyldiphenyl sulfone, 4.2, 9500, 9700, 15, 21; 2,4-dimethoxydiphenyl sulfone, 4.6, 12,000, 10,200, 12, 19; N,N'-diphenyl-N,N'-ditosylethylenediamine, 4.4, -, 12,300, 5, 19; bis[2,2-dimethyl-3-(m-tolyloxy)propyl] carbonate, 4.3, -, 10,100, 3, -; bis(2,4,6-tribromophenoxyethyl) isophthalate, 4.3, -, 12,700, 5, 24; pentaerythritol tetrakis[.alpha.-(3-hydroxy-4-benzoylphenoxy)acetate], 4.3, -, 13,500, 4, 23; Abalyn (Me abietate), 4.7, -, 12,700, 4, 23; 1-isopropylidene-4,4-dimethyl-4,4a-dihydro-1H, 3H,[1,3]oxazino[3,4-a]quinolin-3-one, 4.3, -, 12,700, 5,27; 2,2,4,4-tetramethyl-8-methoxy-4aH-benzo[c]quinolizine-1,3(2H,4H)-dione, 4.3, -, 13,200, 5, 23. Results are also given for di-Me phthalate, di-Bu phthalate, dicyclohexyl phthalate, bis[p-(1,1,3,3-tetramethylbutyl)phenyl]phthalate, and di-Ph phthalate. Cf. CA 63: 11791g.

IT **16977-99-4**
RL: USES (Uses)
(as antiplasticizer for polycarbonates)
RN 16977-99-4 CA
CN 1H-Benzo[c]quinolizine-1,3(2H)-dione, 4,4a-dihydro-8-methoxy-2,2,4,4-tetramethyl- (8CI, 9CI) (CA INDEX NAME)



IT **16977-99-4**
RL: USES (Uses)
(as antiplasticizer for polycarbonates)
RN 16977-99-4 CA
CN 1H-Benzo[c]quinolizine-1,3(2H)-dione, 4,4a-dihydro-8-methoxy-2,2,4,4-tetramethyl- (8CI, 9CI) (CA INDEX NAME)



=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	108.56	242.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-14.56	-14.56

FILE 'CAOLD' ENTERED AT 16:05:22 ON 20 MAR 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> d his

(FILE 'HOME' ENTERED AT 16:00:16 ON 20 MAR 2001)

FILE 'REGISTRY' ENTERED AT 16:00:21 ON 20 MAR 2001
L1 STRUCTURE UPLOADED
L2 7 S L1
L3 155 S L2 FULL

FILE 'CA' ENTERED AT 16:01:47 ON 20 MAR 2001
L4 31 S L3
L5 7 S L4 AND GUARNA, A?/AU
L6 2 S L5 AND PD < JANUARY 1998
L7 24 S L4 NOT L5

FILE 'CAOLD' ENTERED AT 16:05:22 ON 20 MAR 2001

=> s l3

L8 10 L3

=> d l8, all, 1-10

L8 ANSWER 1 OF 10 CAOLD COPYRIGHT 2001 ACS
AN CA65:7140e CAOLD
TI benzo[c]quinolizinium salts via intramol. cyclization
AU Fozard, Alan; Bradsher, C. K.
IT 2739-76-6 2739-92-6 5330-37-0 5350-12-9 6772-68-5 6772-69-6
6772-70-9 6772-71-0 6772-72-1 6772-73-2 6772-75-4 6772-76-5
6772-79-8 6772-80-1 6772-81-2 6772-82-3 6772-83-4 6772-84-5
6772-85-6 6772-87-8 6772-88-9 6772-89-0 6772-90-3 6772-91-4
6772-92-5 6772-93-6 6772-94-7 6772-95-8 6772-96-9 6772-97-0
6772-98-1 6773-02-0 6773-05-3 6798-04-5 6798-05-6 6886-46-0
76293-41-9 92102-81-3 92103-32-7 92290-56-7 92290-57-8 93535-01-4
94998-27-3 96279-83-3 **96279-91-3** 96329-85-0 96953-93-4
96984-48-4 96984-49-5 97027-22-0 97437-83-7 97834-69-0 98655-38-0
100299-73-8 106480-77-7 **106742-14-7** 107541-63-9
107543-02-2

L8 ANSWER 2 OF 10 CAOLD COPYRIGHT 2001 ACS
AN CA64:15941e CAOLD
TI azasteroids - (III) 9-azasteroids
AU Schleigh, William R.; Popp, F. D.
TI prepn. and chemistry of 10.alpha.-estra-4-en-3-ones
AU Farkas, Eugene; Owen, J. M.; Debono, M.; Molloy, R. M.; Marsh, M. M.
IT 434-22-0 4491-36-5 4527-66-6 **4527-67-7** 4620-34-2
4660-20-2 5233-21-6 5233-22-7 5233-23-8 5233-24-9 5670-42-8
5670-43-9 5670-44-0 5670-45-1 5670-46-2 5670-47-3 5670-51-9
5670-52-0 5670-53-1 5670-54-2 5670-55-3 5670-56-4 5670-57-5
5696-23-1 5696-24-2 6017-86-3

L8 ANSWER 3 OF 10 CAOLD COPYRIGHT 2001 ACS
AN CA64:6613c CAOLD
TI synthesis of 9-azasteroids - (II) synthesis of .beta.-cyano- and .beta.-carbethoxy-3- and 4-oxo-1,2,3,4,5,6-hexahydrobenzo[c]quinolizines
AU Jones, Gurnos; Wood, J.
IT 539-74-2 592-55-2 1679-47-6 2213-09-4 5100-50-5 5100-51-6
5100-52-7 **5100-53-8** 5100-54-9 5100-55-0 5100-56-1
5100-57-2 5100-58-3 5100-59-4 5100-61-8 **5100-62-9**
5100-63-0 **5100-64-1** 5100-65-2 5100-66-3
5100-67-4 5100-68-5 5100-69-6 **5100-70-9**
5100-71-0 5100-72-1 5100-73-2 5100-74-3 5100-75-4
5100-76-5 **5100-77-6** 5100-78-7 **5161-93-3**
5161-95-5 5161-98-8 5161-99-9 **5569-24-4** 5688-31-3
6166-32-1 14283-09-1

L8 ANSWER 4 OF 10 CAOLD COPYRIGHT 2001 ACS
AN CA64:6613b CAOLD
TI synthesis and reactions of 1-carbamoyl- 1 1-oxoindeno[1,2-c]isoquinoline

AU Stowell, James K.
IT 5161-91-1 **5161-92-2** 5580-65-4

L8 ANSWER 5 OF 10 CAOLD COPYRIGHT 2001 ACS
AN CA64:2083h CAOLD
TI adducts of dimethylketene with C:N-contg. compds.
AU Martin, James Cuthbert; Hoyle, V. A., Jr.; Brannock, K. C.
IT 598-26-5 4612-76-4 6082-56-0 6082-57-1 6082-58-2 6082-59-3
6082-60-6 6082-61-7 6082-62-8 **6082-64-0**

L8 ANSWER 6 OF 10 CAOLD COPYRIGHT 2001 ACS
AN CA64:2048c CAOLD
TI synthesis of 9-azasteroids - (I) attempted synthesis of 4-oxobenzo[c]quinolizidines
AU Jones, Gurnos; Wood, J.
IT 2969-81-5 3153-36-4 4491-26-3 4491-27-4 4491-28-5 4491-29-6
4491-30-9 4491-31-0 4491-32-1 4491-33-2 4491-36-5 4491-38-7
4497-60-3 4497-61-4 4497-62-5 4497-63-6 4497-64-7 4497-65-8
4497-66-9 4497-67-0 4497-68-1 4518-27-8 4527-66-6
4527-67-7 **4604-91-5** 4607-79-8 **4613-02-9**
4620-32-0 4620-33-1 4620-34-2 4627-23-0 4660-20-2 4933-73-7
4933-74-8 96650-09-8

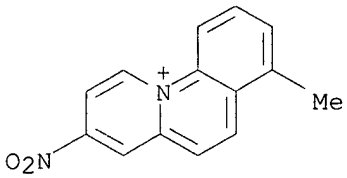
L8 ANSWER 7 OF 10 CAOLD COPYRIGHT 2001 ACS
AN CA59:6371e CAOLD
TI heterocyclic quinones from 2,3-dichloro-1,4-naphthoquinone
AU Sartori, Mario F.
TI ketene and its derivs. - (III) reaction of diketene with quinoline
AU Kato, Tetsuzo; Kitagawa, T.; Yamamoto, Y.
IT **95516-57-7** **95771-15-6** **98029-81-3**

L8 ANSWER 8 OF 10 CAOLD COPYRIGHT 2001 ACS
AN CA58:504e CAOLD
TI reaction of dimethyl acetylenedicarboxylate with quinaldine
AU Crabtree, A.; Jackman, L. M.; Johnson, A. W.
IT **17260-83-2** 100266-52-2 101358-50-3 107118-15-0

L8 ANSWER 9 OF 10 CAOLD COPYRIGHT 2001 ACS
AN CA57:779g CAOLD
TI synthesis of 9, 11, 12, 13, 13a, 14-hexahydro-2,3,6-trimethoxydibenzo[f,h]pyrrolo[1,2-b]isoquinoline
AU Govindachari, Tuticorin R.; Ragade, I. S.; Viswanathan, N.
IT 909-41-1 1971-34-2 4176-23-2 4234-95-1 24892-72-6
26593-23-7 30963-47-4 **33922-39-3** 59222-31-0
87101-69-7 93431-38-0 93809-59-7 94005-32-0 94165-06-7 97434-62-3
100088-44-6 100233-74-7 100233-81-6 100266-53-3 101984-30-9 105767-03-1
107160-62-3

L8 ANSWER 10 OF 10 CAOLD COPYRIGHT 2001 ACS
AN CA55:2648g CAOLD
TI adducts from quinoline and dimethyl acetylenedicarboxylate
AU Acheson, Roy M.; Earl, N. J.; Higham, P.; Richards, R. E.; Taylor, G. A.; Vernon, J. M.
IT 762-42-5 **26593-23-7** **33922-39-3** 132753-02-7

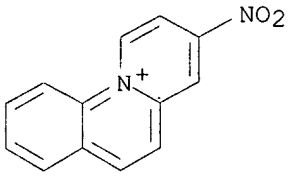
```
=> file reg

COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY    SESSION
FULL ESTIMATED COST                                        5.71     248.29

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                          ENTRY    SESSION
CA SUBSCRIBER PRICE                                        0.00     -14.56

FILE 'REGISTRY' ENTERED AT 16:05:44 ON 20 MAR 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES:   19 MAR 2001  HIGHEST RN 328055-05-6
DICTIONARY FILE UPDATES:  19 MAR 2001  HIGHEST RN 328055-05-6

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Structure search limits have been increased.  See HELP SLIMIT
for details.

=> e    96279-91-3/rn

E1            1     96279-89-9/RN
E2            1     96279-90-2/RN
E3            1 --> 96279-91-3/RN
E4            1     96279-92-4/RN
E5            1     96279-93-5/RN
E6            1     96279-94-6/RN
E7            1     96279-95-7/RN
E8            1     96279-96-8/RN
E9            1     96279-97-9/RN
E10           1     96279-98-0/RN
E11           1     96279-99-1/RN
E12           1     96280-00-1/RN

=> s e3

L9            1 96279-91-3/RN

=> d l9


L9   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   96279-91-3  REGISTRY
CN   7-Methyl-3-nitrobenzo[c]quinolizinium chloride (7CI)  (CA INDEX NAME)
MF   C14 H11 N2 O2 . Cl
LC   STN Files:   CAOLD
```



● Cl^-

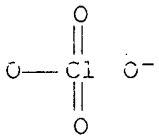
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e 106742-14-7/rn

E1            1     106742-12-5/RN
E2            1     106742-13-6/RN
E3            1 --> 106742-14-7/RN
E4            1     106742-15-8/RN
E5            1     106742-16-9/RN
E6            1     106742-17-0/RN
E7            1     106742-18-1/RN
E8            1     106742-19-2/RN
E9            1     106742-20-5/RN
E10           1     106742-21-6/RN
E11           1     106742-22-7/RN
E12           1     106742-23-8/RN

=> s e3

L10           1 106742-14-7/RN

=> d l10


L10  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   106742-14-7  REGISTRY
CN   3-Nitrobenzo[c]quinolizinium perchlorate (7CI)  (CA INDEX NAME)
MF   C13 H9 N2 O2 . Cl O4
SR   CAOLD
LC   STN Files:   CAOLD

     CM   1

     CRN  106742-13-6
     CMF  C13 H9 N2 O2
```



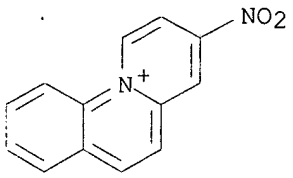
CM 2

CRN 14797-73-0
CMF Cl O4



1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

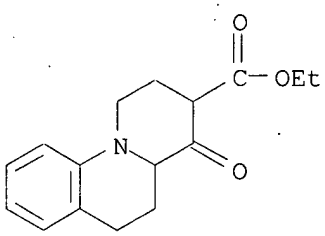
```
=> e    107543-02-2/rn

E1            1     107543-00-0/RN
E2            1     107543-01-1/RN
E3            1 --> 107543-02-2/RN
E4            1     107543-03-3/RN
E5            1     107543-04-4/RN
E6            1     107543-05-5/RN
E7            1     107543-06-6/RN
E8            1     107543-07-7/RN
E9            1     107543-08-8/RN
E10           1     107543-09-9/RN
E11           1     107543-10-2/RN
E12           1     107543-11-3/RN

=> s e3

L11           1 107543-02-2/RN

=> d l11


L11  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   107543-02-2  REGISTRY
CN   3-Nitrobenzo[c]quinolizinium chloride (7CI)  (CA INDEX NAME)
MF   C13 H9 N2 O2 . Cl
SR   CAOLD
LC   STN Files:   CAOLD
CRN  (106742-13-6)
```



● Cl^-

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

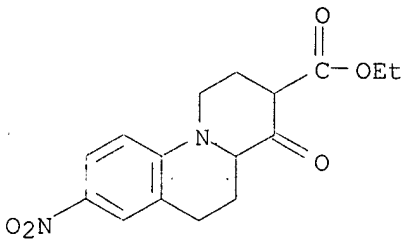
```
=> e   4527-67-7/rn

E1            1     4527-64-4/RN
E2            1     4527-66-6/RN
E3            1 --> 4527-67-7/RN
E4            1     4527-68-8/RN
E5            1     4527-69-9/RN
E6            1     4527-70-2/RN
E7            1     4527-71-3/RN
E8            1     4527-74-6/RN
E9            1     4527-75-7/RN
E10           1     4527-76-8/RN
E11           1     4527-78-0/RN
E12           1     4527-79-1/RN

=> s e3

L12           1 4527-67-7/RN

=> d l12


L12  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   4527-67-7  REGISTRY
CN   1H-Benzo[c]quinolizine-3-carboxylic acid, 2,3,4,4a,5,6-hexahydro-4-oxo-,
     ethyl ester, hydrochloride (7CI, 8CI)  (CA INDEX NAME)
MF   C16 H19 N O3 . Cl H
LC   STN Files:   CAOLD
CRN  (4613-02-9)
```



● HCl

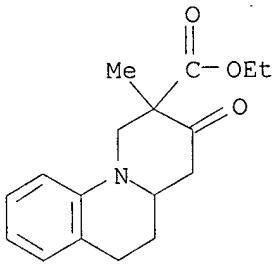
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e    5100-53-8/rn

E1            1     5100-51-6/RN
E2            1     5100-52-7/RN
E3            1 --> 5100-53-8/RN
E4            1     5100-54-9/RN
E5            1     5100-55-0/RN
E6            1     5100-56-1/RN
E7            1     5100-57-2/RN
E8            1     5100-58-3/RN
E9            1     5100-59-4/RN
E10           1     5100-61-8/RN
E11           1     5100-62-9/RN
E12           1     5100-63-0/RN

=> s e3

L13           1 5100-53-8/RN

=> d l13


L13  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   5100-53-8  REGISTRY
CN   1H-Benzo[c]quinolizine-3-carboxylic acid,
2,3,4,4a,5,6-hexahydro-8-nitro-4-
     oxo-, ethyl ester (7CI, 8CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C16 H18 N2 O5
LC   STN Files:   BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)
```



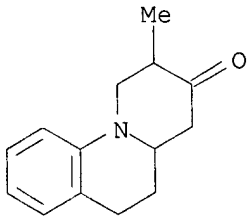
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e    5100-62-9/rn

E1            1     5100-59-4/RN
E2            1     5100-61-8/RN
E3            1 --> 5100-62-9/RN
E4            1     5100-63-0/RN
E5            1     5100-64-1/RN
E6            1     5100-65-2/RN
E7            1     5100-66-3/RN
E8            1     5100-67-4/RN
E9            1     5100-68-5/RN
E10           1     5100-69-6/RN
E11           1     5100-70-9/RN
E12           1     5100-71-0/RN

=> s e3

L14           1 5100-62-9/RN

=> d l14


L14  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   5100-62-9  REGISTRY
CN   1H-Benzo[c]quinolizine-2-carboxylic acid, 2,3,4,4a,5,6-hexahydro-3-oxo-,
     ethyl ester, hydrochloride (7CI, 8CI)  (CA INDEX NAME)
MF   C16 H19 N O3 . Cl H
LC   STN Files:   CAOLD
CRN  (5161-92-2)
```



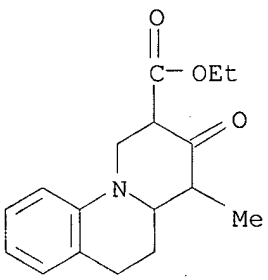
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e 5100-64-1/rn

E1            1      5100-62-9/RN
E2            1      5100-63-0/RN
E3            1  --> 5100-64-1/RN
E4            1      5100-65-2/RN
E5            1      5100-66-3/RN
E6            1      5100-67-4/RN
E7            1      5100-68-5/RN
E8            1      5100-69-6/RN
E9            1      5100-70-9/RN
E10           1      5100-71-0/RN
E11           1      5100-72-1/RN
E12           1      5100-73-2/RN

=> s e3

L16           1 5100-64-1/RN

=> d l16


L16  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   5100-64-1  REGISTRY
CN   3H-Benzo[c]quinolizin-3-one, 1,2,4,4a,5,6-hexahydro-2-methyl- (7CI, 8CI)
     (CA INDEX NAME)
FS   3D CONCORD
MF   C14 H17 N O
LC   STN Files:   BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)
```



1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

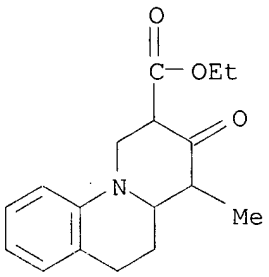
```
=> e    5100-70-9/rn

E1            1     5100-68-5/RN
E2            1     5100-69-6/RN
E3            1 --> 5100-70-9/RN
E4            1     5100-71-0/RN
E5            1     5100-72-1/RN
E6            1     5100-73-2/RN
E7            1     5100-74-3/RN
E8            1     5100-75-4/RN
E9            1     5100-76-5/RN
E10           1     5100-77-6/RN
E11           1     5100-78-7/RN
E12           1     5100-80-1/RN

=> s e3

L17           1 5100-70-9/RN

=> d l17

L17  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   5100-70-9  REGISTRY
CN   1H-Benzo[c]quinolizine-2-carboxylic acid,
2,3,4,4a,5,6-hexahydro-4-methyl-
     3-oxo-, ethyl ester (7CI, 8CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C17 H21 N O3
CI   COM
LC   STN Files:   BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)
```



1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e     5100-71-0/rn

E1            1     5100-69-6/RN
E2            1     5100-70-9/RN
```

```
E3            1 --> 5100-71-0/RN
E4            1     5100-72-1/RN
E5            1     5100-73-2/RN
E6            1     5100-74-3/RN
E7            1     5100-75-4/RN
E8            1     5100-76-5/RN
E9            1     5100-77-6/RN
E10           1     5100-78-7/RN
E11           1     5100-80-1/RN
E12           1     5100-81-2/RN

=> s e3

L18           1 5100-71-0/RN

=> d l18


L18  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   5100-71-0  REGISTRY
CN   1H-Benzo[c]quinolizine-2-carboxylic acid,
2,3,4,4a,5,6-hexahydro-4-methyl-
     3-oxo-, ethyl ester, hydrochloride (7CI, 8CI)  (CA INDEX NAME)
MF   C17 H21 N O3 . Cl H
LC   STN Files:   CAOLD
CRN  (5100-70-9)
```

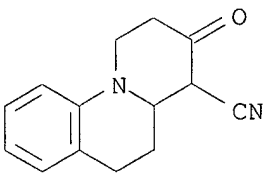


● HCl

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e   5100-76-5/rn

E1            1     5100-74-3/RN
E2            1     5100-75-4/RN
E3            1 --> 5100-76-5/RN
E4            1     5100-77-6/RN
E5            1     5100-78-7/RN
E6            1     5100-80-1/RN
E7            1     5100-81-2/RN
```

```
E8              1      5100-82-3/RN
E9              1      5100-83-4/RN
E10             1      5100-84-5/RN
E11             1      5100-85-6/RN
E12             1      5100-86-7/RN

=> s e3

L19             1 5100-76-5/RN

=> d l19


L19  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   5100-76-5  REGISTRY
CN   1H-Benzo[c]quinolizine-4-carbonitrile, 2,3,4,4a,5,6-hexahydro-3-oxo-,
     hydrochloride (7CI, 8CI)  (CA INDEX NAME)
MF   C14 H14 N2 O . Cl H
LC   STN Files:   CAOLD
CRN  (5100-77-6)
```



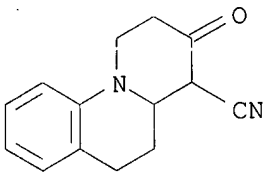
● HCl

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e   5100-77-6/rn

E1              1      5100-75-4/RN
E2              1      5100-76-5/RN
E3              1 --> 5100-77-6/RN
E4              1      5100-78-7/RN
E5              1      5100-80-1/RN
E6              1      5100-81-2/RN
E7              1      5100-82-3/RN
E8              1      5100-83-4/RN
E9              1      5100-84-5/RN
E10             1      5100-85-6/RN
E11             1      5100-86-7/RN
E12             1      5100-87-8/RN

=> s e3

L20             1 5100-77-6/RN
```

=> d 120

L20 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
RN **5100-77-6** REGISTRY
CN 1H-Benzo[c]quinolizine-4-carbonitrile, 2,3,4,4a,5,6-hexahydro-3-oxo-(7CI,
9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H14 N2 O
CI COM
LC STN Files: BEILSTEIN*, CAOLD
(*File contains numerically searchable property data)



1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e 5569-24-4/rn

E1 1 5569-19-7/RN
E2 1 5569-22-2/RN
E3 1 --> 5569-24-4/RN
E4 1 5569-25-5/RN
E5 1 5569-26-6/RN
E6 1 5569-27-7/RN
E7 1 5569-28-8/RN
E8 1 5569-29-9/RN
E9 1 5569-30-2/RN
E10 1 5569-31-3/RN
E11 1 5569-32-4/RN
E12 1 5569-34-6/RN

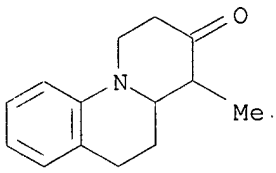
=> s e3

L21 1 5569-24-4/RN

=> d 121

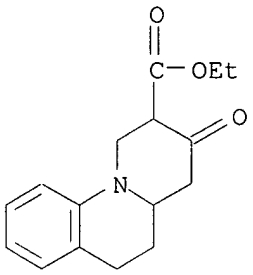
L21 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
RN **5569-24-4** REGISTRY
CN 3H-Benzo[c]quinolizin-3-one, 1,2,4,4a,5,6-hexahydro-4-methyl- (7CI, 8CI,
9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H17 N O
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXLIT

(*File contains numerically searchable property data)



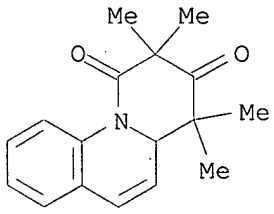
3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e   5161-92-2/rn

E1            1      5161-86-4/RN
E2            1      5161-91-1/RN
E3            1 --> 5161-92-2/RN
E4            1      5161-93-3/RN
E5            1      5161-95-5/RN
E6            1      5161-98-8/RN
E7            1      5161-99-9/RN
E8            1      51610-00-5/RN
E9            1      51610-01-6/RN
E10           1      51610-02-7/RN
E11           1      51610-03-8/RN
E12           1      51610-04-9/RN

=> s e3

L22           1 5161-92-2/RN

=> d l22

L22  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   5161-92-2  REGISTRY
CN   1H-Benzo[c]quinolizine-2-carboxylic acid, 2,3,4,4a,5,6-hexahydro-3-oxo-,
     ethyl ester (7CI, 8CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C16 H19 N O3
CI   COM
LC   STN Files:   BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)
```



1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e   6082-64-0/rn

E1            1      6082-61-7/RN
E2            1      6082-62-8/RN
E3            1  --> 6082-64-0/RN
E4            1      6082-66-2/RN
E5            1      6082-69-5/RN
E6            1      6082-70-8/RN
E7            1      6082-72-0/RN
E8            1      6082-73-1/RN
E9            1      6082-74-2/RN
E10           1      6082-75-3/RN
E11           1      6082-79-7/RN
E12           1      6082-80-0/RN

=> s e3

L23           1 6082-64-0/RN

=> d l23

L23  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   6082-64-0  REGISTRY
CN   1H-Benzo[c]quinolizine-1,3(2H)-dione, 4,4a-dihydro-2,2,4,4-tetramethyl-
     (7CI, 8CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C17 H19 N O2
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
         (*File contains numerically searchable property data)
```



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e 4527-67-7/rn

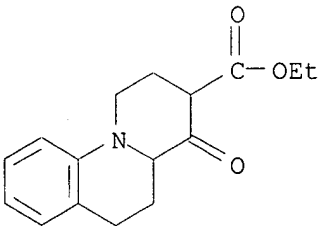
E1	1	4527-64-4/RN
E2	1	4527-66-6/RN
E3	1 -->	4527-67-7/RN
E4	1	4527-68-8/RN
E5	1	4527-69-9/RN
E6	1	4527-70-2/RN
E7	1	4527-71-3/RN
E8	1	4527-74-6/RN
E9	1	4527-75-7/RN
E10	1	4527-76-8/RN
E11	1	4527-78-0/RN
E12	1	4527-79-1/RN

=> s e3

L24 1 4527-67-7/RN

=> d l24

L24 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
RN **4527-67-7** REGISTRY
CN 1H-Benzo[c]quinolizine-3-carboxylic acid, 2,3,4,4a,5,6-hexahydro-4-oxo-, ethyl ester, hydrochloride (7CI, 8CI) (CA INDEX NAME)
MF C16 H19 N O3 . Cl H
LC STN Files: CAOLD
CRN (4613-02-9)

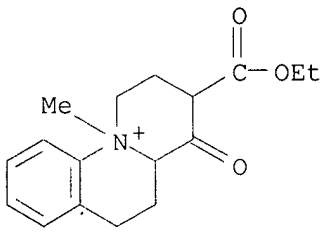


● HCl

3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e 4604-91-5/rn

```
E1            1      4604-87-9/RN
E2            1      4604-88-0/RN
E3            1 --> 4604-91-5/RN
E4            1      4604-95-9/RN
E5            1      4604-98-2/RN
E6            1      4604-99-3/RN
E7            1      46040-54-4/RN
E8            1      46040-71-5/RN
E9            1      46040-83-9/RN
E10           1      46041-04-7/RN
E11           1      46041-05-8/RN
E12           1      46041-07-0/RN

=> s e3

L25           1 4604-91-5/RN

=> d l25


L25  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   4604-91-5  REGISTRY
CN   1H-Benzo[c]quinolizinium,
3-carboxy-3,4,4a,5,6-hexahydro-11-methyl-4-oxo-,
     iodide, ethyl ester (8CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   3-Carboxy-2,3,4,4a,5,6-hexahydro-11-methyl-4-oxo-1H-benzo[c]quinolizinium
     iodide, ethyl ester (7CI)
MF   C17 H22 N O3 . I
LC   STN Files:   CAOLD
```

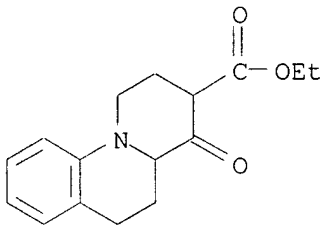


● I^-

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e    4613-02-9/rn

E1            1      46129-86-6/RN
E2            1      46129-87-7/RN
E3            1 --> 4613-02-9/RN
E4            1      4613-03-0/RN
```

```
E5              1     4613-04-1/RN
E6              1     4613-05-2/RN
E7              1     4613-06-3/RN
E8              1     4613-07-4/RN
E9              1     4613-08-5/RN
E10             1     4613-09-6/RN
E11             1     4613-10-9/RN
E12             1     4613-11-0/RN

=> s e3

L26             1 4613-02-9/RN

=> d l26


L26  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   4613-02-9  REGISTRY
CN   1H-Benzo[c]quinolizine-3-carboxylic acid, 2,3,4,4a,5,6-hexahydro-4-oxo-,
     ethyl ester (7CI, 8CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C16 H19 N O3
CI   COM
LC   STN Files:   BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)
```

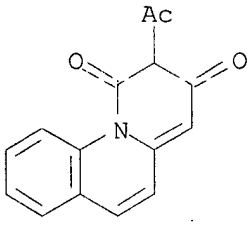



```
                2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=> e  95516-57-7/rn

E1              1     95516-55-5/RN
E2              1     95516-56-6/RN
E3              1 --> 95516-57-7/RN
E4              1     95516-58-8/RN
E5              1     95516-59-9/RN
E6              1     95516-60-2/RN
E7              1     95516-61-3/RN
E8              1     95516-62-4/RN
E9              1     95516-63-5/RN
E10             1     95516-64-6/RN
E11             1     95516-65-7/RN
E12             1     95516-66-8/RN

=> s e3
```

L27 1 95516-57-7/RN

=> d l27

L27 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
RN **95516-57-7** REGISTRY
CN 1H-Benzo[c]quinolizine-1,3(2H)-dione, 2-acetyl- (7CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H11 N O3
LC STN Files: BEILSTEIN*, CAOLD
(*File contains numerically searchable property data)



1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e 95771-15-6/rn

E1 1 95771-13-4/RN
E2 1 95771-14-5/RN
E3 1 --> 95771-15-6/RN
E4 1 95771-16-7/RN
E5 1 95771-17-8/RN
E6 1 95771-18-9/RN
E7 1 95771-19-0/RN
E8 1 95771-20-3/RN
E9 1 95771-21-4/RN
E10 1 95771-22-5/RN
E11 1 95771-23-6/RN
E12 1 95771-24-7/RN

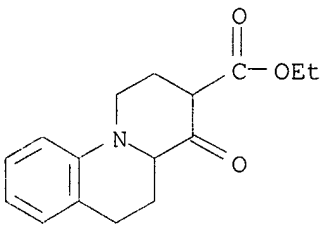
=> s e3

L28 1 95771-15-6/RN

=> d l26

L26 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
RN **4613-02-9** REGISTRY
CN 1H-Benzo[c]quinolizine-3-carboxylic acid, 2,3,4,4a,5,6-hexahydro-4-oxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H19 N O3

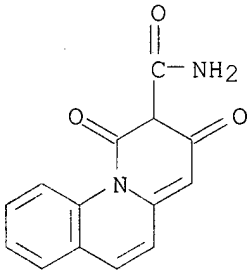
CI COM
LC STN Files: BEILSTEIN*, CAOLD
(*File contains numerically searchable property data)



2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d l28

L28 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
RN **95771-15-6** REGISTRY
CN 1H-Benzo[c]quinolizine-2-carboxamide, 2,3-dihydro-1,3-dioxo- (7CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H10 N2 O3
LC STN Files: BEILSTEIN*, CAOLD
(*File contains numerically searchable property data)

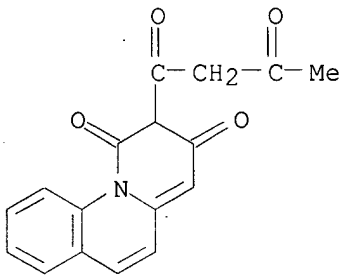


1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e 98029-81-3/rn

E1 1 98029-79-9/RN
E2 1 98029-80-2/RN
E3 1 --> 98029-81-3/RN
E4 1 98029-82-4/RN
E5 1 98029-83-5/RN
E6 1 98029-84-6/RN
E7 1 98029-85-7/RN
E8 1 98029-86-8/RN

```
E9              1     98029-87-9/RN
E10             1     98029-88-0/RN
E11             1     98029-89-1/RN
E12             1     98029-90-4/RN

=> s e3

L29             1 98029-81-3/RN

=> d l29


L29  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2001 ACS
RN   98029-81-3  REGISTRY
CN   1H-Benzo[c]quinolizine-1,3(2H)-dione, 2-acetoacetyl- (7CI)  (CA INDEX
     NAME)
FS   3D CONCORD
MF   C17 H13 N O4
SR   CAOLD
LC   STN Files:   BEILSTEIN*, CAOLD
         (*File contains numerically searchable property data)
```

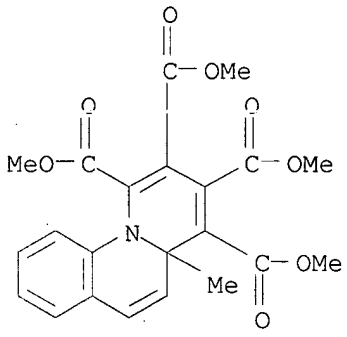


1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e   17260-83-2/rn

E1              1     17260-81-0/RN
E2              1     17260-82-1/RN
E3              1 --> 17260-83-2/RN
E4              1     17260-84-3/RN
E5              1     17260-85-4/RN
E6              1     17260-86-5/RN
E7              1     17260-87-6/RN
E8              1     17260-88-7/RN
E9              1     17260-89-8/RN
E10             1     17260-90-1/RN
E11             1     17260-91-2/RN
E12             1     17260-92-3/RN

=> s e3

L30             1 17260-83-2/RN
```

=> d l30

L30 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
RN **17260-83-2** REGISTRY
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, 4a-methyl-, tetramethyl ester (7CI, 8CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H21 N O8
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e 26593-23-7/rn

E1 1 26593-17-9/RN
E2 1 26593-20-4/RN
E3 1 --> 26593-23-7/RN
E4 1 26593-26-0/RN
E5 1 26593-27-1/RN
E6 1 26593-29-3/RN
E7 1 26593-33-9/RN
E8 1 26593-34-0/RN
E9 1 26593-35-1/RN
E10 1 26593-36-2/RN
E11 1 26593-37-3/RN
E12 1 26593-38-4/RN

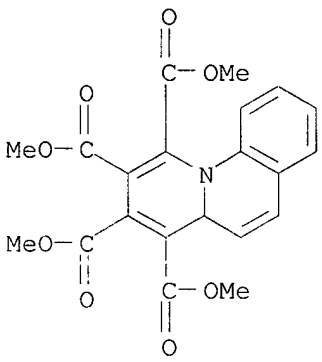
=> s e3

L31 1 26593-23-7/RN

=> d l31

L31 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS

RN **26593-23-7** REGISTRY
CN 4aH-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, tetramethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H19 N O8
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)



3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e 33922-39-3/rn

E1	1		33922-37-1/RN
E2	1		33922-38-2/RN
E3	1	-->	33922-39-3/RN
E4	1		33922-40-6/RN
E5	1		33922-42-8/RN
E6	1		33922-43-9/RN
E7	1		33922-44-0/RN
E8	1		33922-45-1/RN
E9	1		33922-46-2/RN
E10	1		33922-54-2/RN
E11	1		33922-55-3/RN
E12	1		33922-57-5/RN

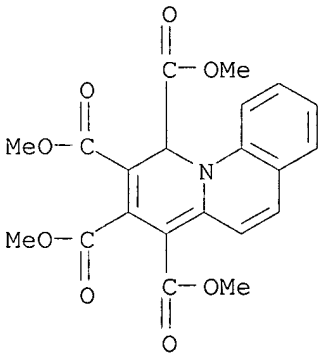
=> s e3

L32 1 33922-39-3/RN

=> d l32

L32 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
RN **33922-39-3** REGISTRY
CN 1H-Benzo[c]quinolizine-1,2,3,4-tetracarboxylic acid, tetramethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
FS 3D CONCORD

MF C21 H19 N O8
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d his

(FILE 'HOME' ENTERED AT 16:00:16 ON 20 MAR 2001)

FILE 'REGISTRY' ENTERED AT 16:00:21 ON 20 MAR 2001
L1 STRUCTURE UPLOADED
L2 7 S L1
L3 155 S L2 FULL

FILE 'CA' ENTERED AT 16:01:47 ON 20 MAR 2001
L4 31 S L3
L5 7 S L4 AND GUARNA, A?/AU
L6 2 S L5 AND PD < JANUARY 1998
L7 24 S L4 NOT L5

FILE 'CAOLD' ENTERED AT 16:05:22 ON 20 MAR 2001
L8 10 S L3

FILE 'REGISTRY' ENTERED AT 16:05:44 ON 20 MAR 2001
E 96279-91-3/RN
L9 1 S E3
E 106742-14-7/RN
L10 1 S E3
E 107543-02-2/RN
L11 1 S E3
E 4527-67-7/RN
L12 1 S E3
E 5100-53-8/RN
L13 1 S E3
E 5100-62-9/RN

```
L14             1 S E3
                  E   5100-63-0/RN
L15             1 S E3
                  E 5100-64-1/RN
L16             1 S E3
                  E    5100-70-9/RN
L17             1 S E3
                  E     5100-71-0/RN
L18             1 S E3
                  E   5100-76-5/RN
L19             1 S E3
                  E   5100-77-6/RN
L20             1 S E3
                  E     5569-24-4/RN
L21             1 S E3
                  E   5161-92-2/RN
L22             1 S E3
                  E   6082-64-0/RN
L23             1 S E3
                  E  4527-67-7/RN
L24             1 S E3
                  E   4604-91-5/RN
L25             1 S E3
                  E    4613-02-9/RN
L26             1 S E3
                  E  95516-57-7/RN
L27             1 S E3
                  E   95771-15-6/RN
L28             1 S E3
                  E    98029-81-3/RN
L29             1 S E3
                  E   17260-83-2/RN
L30             1 S E3
                  E   26593-23-7/RN
L31             1 S E3
                  E    33922-39-3/RN
L32             1 S E3

=>

---Logging off of STN---


=>
Executing the logoff script...


=> LOG Y

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    47.11     295.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
```

CA SUBSCRIBER PRICE 0.00 -14.56

STN INTERNATIONAL LOGOFF AT 16:24:32 ON 20 MAR 2001